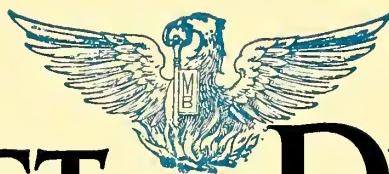


*The*

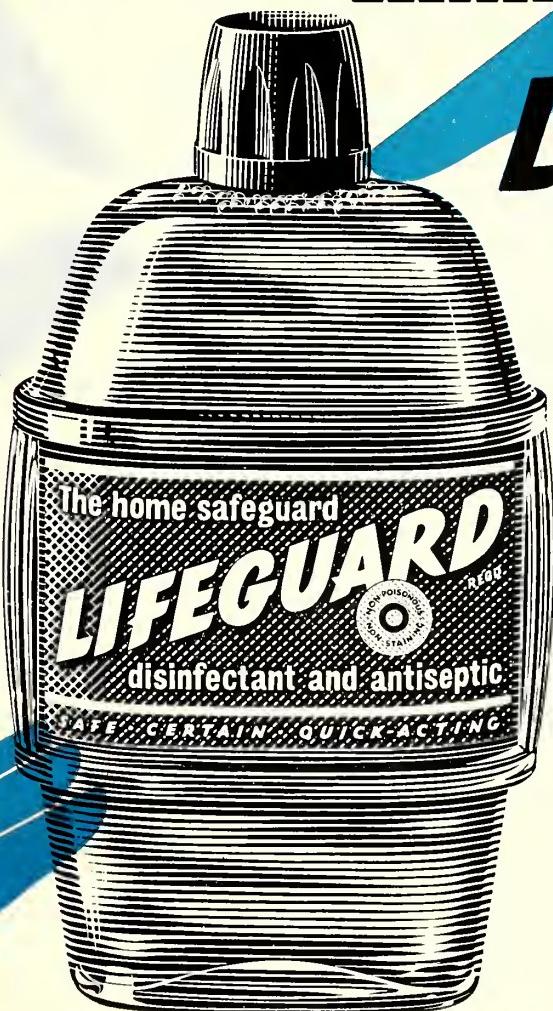


# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

OCTOBER 30 1954

f course, there's an ever-increasing demand for



## LIFEGUARD

REGD.

THE SUPREME DISINFECTANT

- \* Bigger and bigger sales every year
- \* A name that inspires confidence
- \* A pack that's a display in itself
- \* Regular, widespread advertising
- \* Excellent terms

LIFEGUARD PRODUCTS LTD., LONDON

*A new streamlined presentation  
for tablets of  
established  
repute*



Here is an  
up-to-the-  
minute service  
for the Chemist

Popular varieties of Kerfoots Tablets are now available in the ideal pack. Each tablet is hermetically sealed and protected in moisture proof, transparent film. Colourful cartons and display outers complete the outfit .... Good tablets—well packed and well displayed.

**KERFOOTS** *Strip-Packed* **TABLETS**

THOMAS KERFOOT & CO., LTD., VALE OF BARDSTON, LANCS

# change of address

• • • • • • • • • • • • • • • • • • •

## BAYER PRODUCTS LTD

move to new administrative Headquarters at

**Neville House, Eden Street, Kingston-on-Thames,  
Surrey. Telephone KINgston 7733**

From the 30th October all communications  
should be sent to the above new address.

*Manufacturing Laboratories : West Molesey, Surrey*

*Warehouse and Despatch : Canada Road, Byfleet, Surrey*

*Biological Institute : Exning, Suffolk*

*Dublin Office : Molesworth House, 1 & 2, South Frederick Street, Dublin,*

*Associated export company : Winthrop Products Ltd. also move to  
Kingston-on-Thames, Surrey*



# KOTEX

## PRICES REDUCED!

**TRADE PRICES**  
**COME DOWN**  
**IMMEDIATELY**



**RETAIL PRICES COME DOWN ON JAN. 1st**

Present Retail Prices	Retail Prices from Jan. 1st	Trade Prices from Nov. 1st	Your Profit Nov.-Dec.
2/- box	1/9d	16/7d	7/5d per doz. or 31%
1/- box	10d	7/11d	4/1d per doz. or 34%

### 2 MONTHS EXTRA PROFIT FOR YOU!

Take advantage of these new low prices. Stock, display and sell more Kotex\* before January 1st for a substantial increase in your profits!



**ORDER KOTEX AT NEW LOW PRICES**

**THROUGH YOUR WHOLESALER !**

MADE BY CELLUCOTTON PRODUCTS LTD., LONDON.

\*Reg. T.M.

# EVANS

## MEDICAL

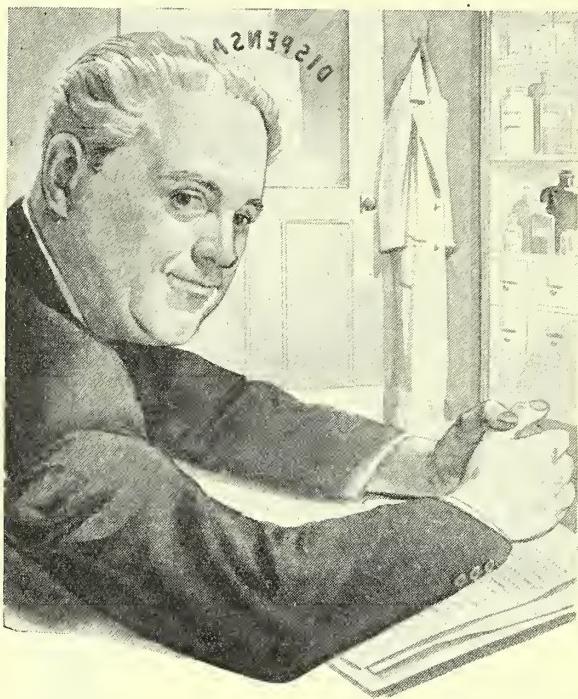
### RANGE OF PRODUCTS FOR THE HOME

<b>BLUE CROSS BABY POWDER</b>	A finely milled dusting powder for nursery use.
<b>CHILBAN</b>	A cream for the relief of chilblains
<b>COLLOZIN</b>	A soothing skin lotion
<b>EMOLAN</b>	An emollient hand cream
<b>EVANS THROAT PASTILLES</b>	A traditional remedy known the world over
<b>HANDGUARD</b>	Barrier Creams for household use
<b>MEDISOAPS</b>	A range of medicated soaps
<b>MICROBAN</b>	An antiseptic cream for household use
<b>OCULAX</b>	An antiseptic eye lotion
<b>RUBAN</b>	An analgesic and rubefacient cream
<b>ZANT</b>	An all purpose disinfectant and antiseptic

**EVANS MEDICAL SUPPLIES LTD.**

SPEKE, LIVERPOOL 19

ALSO AT LONDON, NEWCASTLE & SWANSEA



**"this big new  
DALMAS campaign  
will mean bigger  
sales for me..."**

Regular, forceful advertising will bring the advantages of DALMAS PLASTER home to millions of potential customers every week. Advertisements will appear in the popular and women's magazines—"Picture Post," "Illustrated," "John Bull," "Family Doctor," "Woman," "Woman's Own," "Woman's Weekly," "Woman and Home," "Housewife," "Nursery World," "Wife and Home" and many others.

**so I'm stocking up  
NOW with**

**DALMAS**  
PLASTER  
**WATERPROOF**

**FIRST-AID DRESSINGS**

DALMAS LTD., LEICESTER AND LONDON. ESTD. 1823



## **Cold Immunity... ESÔBACTULIN ORAL VACCINE CAPSULES**

★ GIVE maximum immunity in a safe and simple 5-day course. Discounts of 33½% and a bonus of 13 to the dozen are again offered.



**STOCK UP  
NOW!**

From your usual  
Wholesaler



SOUTHON LABORATORIES LTD.

84-88 UPPER RICHMOND ROAD, LONDON, S.W.15

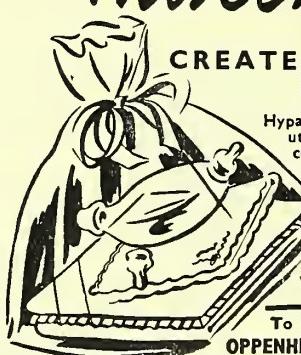


REGISTERED TRADE MARK

**HYPAK**  
BRAND

**Nursery Bags.**

**CREATE RECORD SALES  
FOR CHEMISTS**



Hypak Nursery Bags keep Baby's feeding utensils, clothes, toys and bed linen completely protected from all germs, dust, dirt and dampness. They're ideal too for carrying soiled nappies and clothes when travelling or visiting. Mothers have been quick to realise the advantages of this new line which is making up record sales in Chemists everywhere. Retail price is 4/9 per pack. (Inc. P.T.)

To HYPAK DIVISION of The OPPENHEIMER CASING Co. (U.K.) Ltd.,  
159-165 Harrow Road, London, W.2 Tel: PADdington 7431

As a..... (insert Retailer or Wholesaler)  
I am interested in HYPAK Nursery Bags.

Name.....

Address..... (C&D 30/10/54)

Scottish Sales Depôt: Thornybark, Fountainbridge, Edinburgh, 3  
Telephone: Fountainbridge 1403

## INDEX TO ADVERTISERS

Abbott Laboratories, Ltd.	18, 19	Cow & Gate, Ltd.	32
Aircraft General Supplies & Petronic, Ltd.	14	Cox, Arthur H., & Co., Ltd.	8
Albro Fillers & Engineering Co., Ltd.	39	Crosskill of Norwich	Leader Page
Allen, J., Rubber Co., Ltd.	25	Cuticura Preparations	44
Askit, Ltd.	22	Dalmas, Ltd.	4
Autopack, Ltd.	37	Daniel, Richard, & Son, Ltd.	13
Ayrton, Saunders & Co., Ltd.	9	Dehydration Co. of Egypt S.A.E., The	54
Bailey, Robert, & Son, Ltd.	52	"Disprin"	5
Bayer Products, Ltd.	1	Distillers Co. (Biochemicals), Ltd.	29
Belfast Telegraph	38	Dixor, Ltd.	48
Berdoe & Fish	Classified Section	Domestos, Ltd.	56
Biorex Laboratories, Ltd.	48	Dunn Bros. Successors, Ltd.	55
Boots Pure Drug Co., Ltd.	52	Eade's Pills, Ltd.	40
Bristol Bottle Co.	54	Edme, Ltd.	46
British Drug Houses, Ltd., The	35	Eli Lilly & Co., Ltd.	32
British Dyewood Co., Ltd.	46	Ephazone, Ltd.	42
Brome & Schimmer	40	Evans Medical Supplies, Ltd.	3
Brooks Appliance Co., Ltd.	50	Felling Zinc Oxide Co., The	42
Buckley Bowker Tablet Co., Ltd.	54	Ferro Metal & Chemical Corp., Ltd.	54
Burroughs Wellcome & Co.	31	Fibrelyle, Ltd.	33
Carnegies of Welwyn, Ltd.	6	Field, J. C. & J., Ltd.	45
Carter Bros.	12	Fish Optical Co., Ltd.	55
Cellucotton Products, Ltd.	1	Franco British Glass, Ltd., The	54
Chemist and Druggist Emulsifying Agents	36	Gale & Mount, Ltd.	54
Chemist and Druggist, Refresher Course	55	Gosheron, John, & Co., Ltd.	38
Chemist and Druggist, Veterinary Handbook, The	43	Graebener, Richard	Classified Section
Chemist and Druggist Poisons Guide	50	Hampshire, F. W., & Co., Ltd.	30
Chemists' Sundries (Preston), Ltd.	26	Harker Stagg, Ltd.	12
Chilvax Laboratories, Ltd.	48	Hooper, B., & Co., Ltd.	24
Ciba Laboratories, Ltd.	34	Hotchkiss, H. G., Essential Oil Co., The	44
Cinex, Ltd.	53		
Clinical Products, Ltd.	20		
Compressed Paper Packing, Ltd.	40		

(continued overleaf)

## Stable, soluble, palatable, calcium aspirin

Aspirin can now be administered in bland, complete solution—as 'Disprin.' Disprin tablets not only overcome the two well-known defects of ordinary aspirin; but also that of calcium aspirin, which, as generally prepared, is liable to chemical breakdown during manufacture and storage. In the form of Disprin, dosage with calcium aspirin becomes both predictable and palatable.

**DISPRIN**  
REGD.

*Provides stable, soluble,  
palatable calcium aspirin.*

**INDEX (cont.)**

Ilford, Ltd.	47	Radiol Chemicals, Ltd.	7
Imperial Chemical (Pharmaceuticals), Ltd.	Cover iv	Rankin Bros. & Sons	Leader Page
International Bottle Co., Ltd., The	51	Rees, L., & Co., Ltd.	54
Jeffreys, Miller & Co., Ltd.	55	Ribbands, C., & Sons	Classified Section
Kearsley, C. & G., Ltd.	55	Robinson & Sons, Ltd.	23
Kellys, John (London), Ltd.	38	Scruton, O., & Co., Ltd.	55
Kennett Price Markers	54	Searle, A., & Co.	37
Kerfoot, Thomas, & Co., Ltd.	Cover ii	Shopfitters (Lancashire), Ltd.	39
Lastonet Products, Ltd.	24	Silvikrin Laboratories	28
Leslies, Ltd.	22	Simpkin, A. L., & Co., Ltd.	50
Life & Beauty, Ltd.	15	Simpsons Manufacturing (Pty.), Ltd.	12
Lifeguard Products, Ltd.	Front Cover	Skuse & Co., Ltd.	Leader Page
London Commercial Electrical Stores, Ltd., The	41	Smith & Hill (Chemists), Ltd.	42
Macdonald & Son, Ltd.	13	Southon Laboratories, Ltd.	4
Mehta Brothers	26	Surgical Hosiery Co., Ltd.	44
Menley & James, Ltd.	17	Taylor Reeson Laboratories, Ltd.	34
"Myers of Old Street"	Classified Section	Teasdale & Co., Ltd.	54
Mysore, Trade Agent for	41	Toronto Pharmacal Co., Ltd.	42
Oppenheimer Casing Co. (U.K.), Ltd., The	4	Ultra-Violet, Ltd.	22
Orridge & Co.	Classified Section	Vocalzone, Ltd.	52
Owbridge, W. T., Ltd.	27	Walker, E., & Co. (Electrical Engineers), Ltd.	21
Pascoe-Rutter Vitamins, Ltd.	10, 11	Washington Chemical Co., Ltd., The	53
Pepsodent	16	Webster, Isaac, & Sons, Ltd.	38
Progressive Novelty Industries (M/c.), Ltd.	Leader Page	Wesley, Harold	55
Pure Lemon Juice Co., Ltd.	26	Whiffen & Sons, Ltd.	Cover iii
Wyeth, John, & Bros., Ltd.	24	Whitelaw, J. N., Ltd.	50
Wiles, C., Ltd.	55	Wilson & Mansfield, Ltd.	46
Wimsol, Ltd.	Leader Page	Wimsol, Ltd.	Leader Page

*From the Carnegie Range of Fine Chemicals*

# QUININE AND SALTS

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001

(6 lines)

# RADIAN DISPENSING PACKS are now available

## RADIAN - B

1 lb. bottle . . . . . 8/- tax free  
 5 lb. bottle . . . . . 37/6 , , ,

## RADIAN - α

1 lb. bottle . . . . . 20/- , , ,  
 2 lb. bottle . . . . . 38/- , , ,

## RADIAN MASSAGE CREAM

1 lb. carton . . . . . 8/- , , ,  
 2 lb. carton . . . . . 14/6 , , ,



		Retail incl. tax	Wholesale per doz.
<b>RADIAN-B</b>	4 oz. bottle ..	3/8½	28/-
	8 oz. bottle ..	6/3	46/-
<b>RADIAN-α</b>	1½ oz. bottle ..	3/8½	28/-
	3 oz. bottle ..	6/3	46/-
<b>RADIAN-B BATH SALTS</b>			
	1 lb. carton ..	4/10½*	28/-
	14 lb. carton ..	59/-*	28/- ea.
<b>RADIAN OVALS</b>			
	50 Ovals ..	3/8½	28/-
	100 Ovals ..	6/3	46/-
<b>RADIAN SOOTHING CREAM</b>			
	2 oz. jar ..	3/8½	28/-
<b>RADIAN MASSAGE CREAM</b>			
	4 oz. tube ..	3/8½	28/-
	8 oz. tube ..	6/3	46/-
		*75% tax	

### ★ SPECIAL DISCOUNTS :

5% Display Discount allowed on direct orders of £3 net for 14 days window or counter display. Please notify display dates when ordering.

2½% EXTRA Discount on direct orders of £5 net. If goods to be charged through wholesaler, please name.

Write or  
Phone

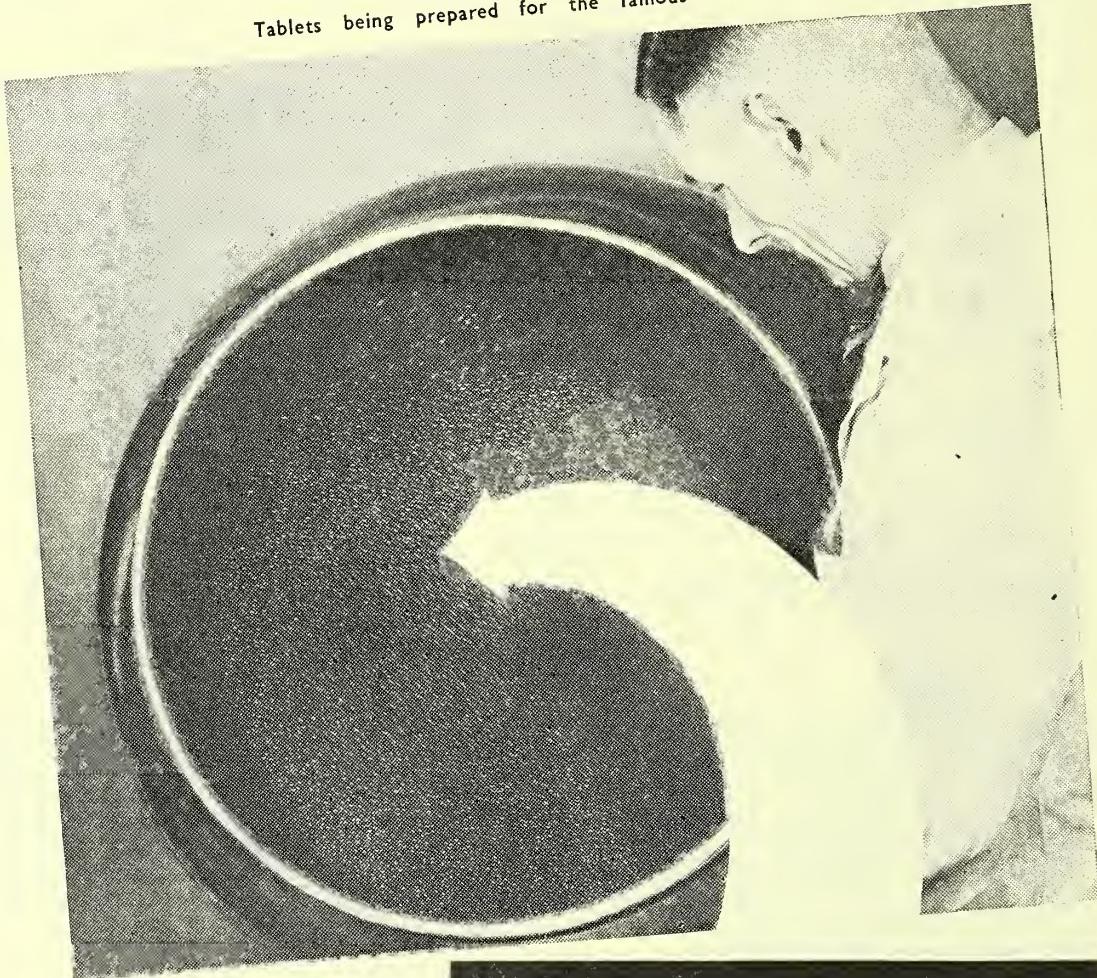
**Radial**  
CHEMICALS LIMITED

78 Upper Richmond Rd.,  
LONDON, S.W.15

Telephone: VANdyke 1642 and 2692

# *Efficacy with Elegance—*

Tablets being prepared for the famous "COX FINISH"



PILLS · PASTILLES  
Creams Ointments  
Suspensions Emulsions  
Solution Tablets  
SUPPOSITORIES

And the entire production  
of a comprehensive OWN  
**BRAND Packaging**  
Service

## TABLETS

that gain the confidence of the public  
and the medical profession.

**ARTHUR H. COX & CO. LTD.**  
Manufacturing Chemists since 1839  
**BRIGHTON**

*Ayrtons*  
LIVERPOOL

## FOR DRUGS

### Winter Preparations

extracts liquors mixtures essences tremors infusions  
 emulsions liniments tinctures syrups linctuses elixirs  
 liquors mixtures essences tremors infusions solution  
 liniments tinctures syrups linctuses elixirs extracts  
 mixtures essences cre  
 tinctures syrups linct **Emuls. Paraff. Liq. Co.**  
 tremors infusions sol  
 nctuses elixirs extracts liquors mixtures ess  
 tutions emulsions liniments tinctures syrups  
 tracts liquors mixtures essences tremors inf  
 ulsions liniments t  
 uors mixtures esse **Tinct. Chlorof. et Morph.**  
 ments tinctures sy  
 tures essences tremors infusions solutions  
 tures syrups linctuses elixirs extracts liqu  
 iors infusions solutions emulsions liniment  
 uses elixirs extra  
 ions emulsions li **Syr. Codein. Phos.**  
 cts liquors mixt  
 ions liniments tinctures syrups linctu  
 s mixtures essences tremors infusions  
 nts tinctures syrups linctuses elixirs e  
 res essences crei  
 es syrups linct **Linct. Scillae Opiat.**  
 s infusions solt  
 s elixirs extracts liquors mixtures  
 s emulsions liniments tinctures sy  
 liquors mixtures essences tremor  
 is liniments ti  
 uxtures essen **Tinct. Opii Camph.**  
 tinctures sy  
 essences tremors infusions sol  
 syrups linctuses elixirs extract  
 ifusions solutions emulsions li  
 liquirs extract  
 mulsions li **Linct. Codein.**  
 uors mixt  
 iniments tinctures syrups li  
 tures essences tremors inf  
 tuctures sy  
 ences crer **Syr. Scillae**

**AYRTON SAUNDERS**  
 & CO. LTD  
**HANOVER STREET · LIVERPOOL**  
 Telephone Royal 8282

# VITAFORT

*for Health, Strength  
and Vitality*

**VITAFORT** is the richest vitamin-mineral preparation offering exceptionally high potencies, including B<sub>6</sub> and B<sub>12</sub> as recommended by world medical authorities. A grand new product with grand terms to Pharmacists and backed by heavy advertising.

More than 25,000,000 customers (more and more of whom are becoming vitamin conscious) will see the sustained and powerful advertising campaigns for VITAFORT in the National and Provincial Press.

Point of sale display material available on request.



### Retail Price

per box of 30 capsules

SUFFICIENT FOR 15 DAYS — **5/-**

DOUBLE QUANTITY PACK — **9/-**

**TERMS 33<sup>1</sup>/<sub>2</sub>/-**  
Generous  
quantity discount

*Order direct from the Distributors:*

**W. B. CARTWRIGHT LTD · RAWDON · LEEDS**

# THE QUALITY VITAMIN-MINERAL PRODUCT OF HIGHER POTENCY

backed by a powerful advertising campaign in the National and Sunday press and important provincial dailies and weeklies.



*Feel better!  
Look fitter!  
Keep younger!*  
**VITAFORT**

Extra potency Vitamin-mineral capsules

Containing the important vitamins and minerals (including vitamins B<sub>12</sub> and B<sub>6</sub>) recommended by world medical authorities

Don't wait for the grey days of winter to get you down! Now is the time to start conserving your summer health and vigour by reinforcing your system with the essential vitamins and minerals often lacking in everyday diet.

Two VITAFORT capsules a day will provide you with all the vitamins and minerals necessary for good health and maintaining resistance to infections. Protect yourself now from colds, digestive upsets, excessive tiredness and all other symptoms.

Feel better, look fitter,  
keep younger by taking  
VITAFORT regularly!

COMPARE  
these  
higher  
vitamin  
potencies  
and  
insist  
on

Each RED capsule  
Vitamin A .. 6,000 I.U.  
Vitamin D .. 1,000 I.U.  
Vitamin E .. 1.5 mg.

Each DARK capsule  
Vitamin B<sub>1</sub> .. 2.0 mgs.  
Vitamin B<sub>2</sub> .. 2.0 mgs.  
(200 mcs.)  
Vitamin B<sub>6</sub> .. 0.2 mg.  
Vitamin C .. 30 mgs.  
(60 I.U.)  
Nicotinamide .. 16 mgs.  
Iron .. 17.5 mgs.  
Phosphorus .. 15.0 mgs.  
Calcium .. 19.4 mgs.  
Manganese .. 0.8 mg.

Guaranteed to contain  
less than those stated  
above.

Daily Mirror  
SUNDAY PICTORIAL

Midland  
Liverpool Echo  
SCOTLAND'S NATIONAL NEWSPAPER  
Daily Record  
BRISTOL EVENING POST  
Evening Chronicle  
Newcastle

# VITAFORT



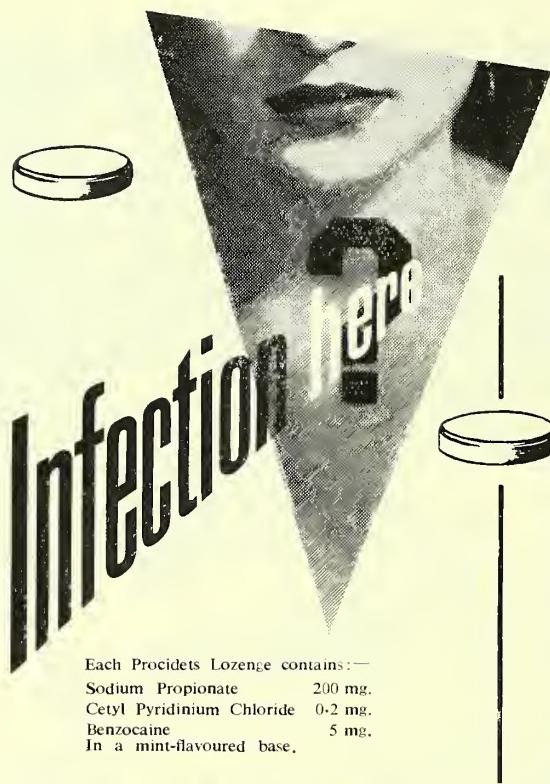
Thirteen essential  
Vitamins and Minerals which  
work together to give the  
fullest nutritional benefits.

From all chemists,  
Price 5/- (15 days' supply) Double size 9/-

PASCOE-RUTTER VITAMINS LTD. Victoria House, London, W.C.I.

# STOCK UP NOW!

Product of PASCOE-RUTTER VITAMINS LTD. VICTORIA HOUSE, SOUTHAMPTON ROW, LONDON, W.C.I



# today's dramatic answer . . .

## CETYL PYRIDINIUM CHLORIDE

NOW INCORPORATED INTO PROCIDETS

Cetyl pyridinium chloride (C.P.C.) is one of the most outstanding bactericidal compounds introduced into medicine. It kills oral pathogenic streptococci at a dilution of 1 in 200,000. Procidets\* make a perfect vehicle for C.P.C. and its addition to the sodium propionate in the Lozenges provides a double-barrelled weapon against many bacterial and fungal infections of the throat, mouth and gums. By reducing surface tension, C.P.C. carries the germicidal action of Procidets deeply into the folds of crevices of the mouth, tonsils and pharynx. The germicidal value of Procidets is such that  $\frac{1}{2}$  of a Lozenge rapidly kills *Streptococcus Pyogenes* in a 10 cc. saliva solution. Procidets are non-toxic, non-irritating and, containing benzocaine, give immediate relief from soreness in the throat and mouth. Now being advertised to doctors—be ready to meet prescription demand by ordering through your usual wholesaler.

*Issued in cartons of 18 Lozenges—metal-foil sealed.  
Retail 2/- inc. tax.*

**PROCIDETS**  
\*REGD. TRADE MARK.  
**THROAT LOZENGES**

HARKER STAGG LTD.,

EMMOTT STREET · LONDON · E.1  
STEPNEY GREEN 2022

*Carter's of Shipley*

present a

### BONUS PARCEL

earning 82·5% gross profit on cost  
of

### Infurno

non-greasy massage cream

for Rheumatism, Sciatica, and gives  
instant relief from pain in the joints  
and muscles

Total retail selling price of bonus parcel	£	s.	d.
39 tubes at 2/6 ...	...	...	4 17 6

Cost of each parcel with 39 tubes

Infurno, 1 display box, 1 shawcard.

Carriage paid and inclusive of P.T. 2 13 5

YOUR PROFIT £2 4 1

**CARTER BROS.**

Manufacturing Chemists

GLEN LABORATORIES · SHIPLEY · YORKS

**Your own  
proprietary lines  
manufactured and  
packed in  
AUSTRALIA**

Australia's high standard of living makes it a rich market for proprietary lines — chemists' lines, cosmetics, groceries, horticultural and veterinary products etc. To avoid difficult import restrictions, and freight and insurance costs, many manufacturers are now having their goods prepared and packed in Australia.

Since 1888  
Simpson's Manufacturing Pty. Ltd., of Melbourne, Victoria

and Sydney, New South Wales, has been producing articles of this kind since 1888. They now list over a thousand clients from all parts of the world. Clients' specifications are faithfully followed and utter secrecy is observed. Distribution, marketing and advertising facilities in all states are available if required.

Further details and quotations will be gladly given without obligation.

**SIMPSONS**  
SINCE 1888

Barkly Avenue, Burnley, Melbourne, E.1., Victoria, Australia.



# Richard Daniel & Son LTD

*for*

## PACKED GOODS

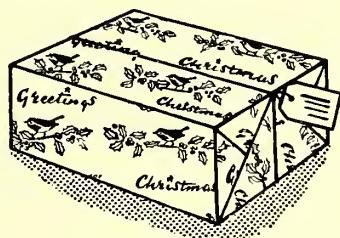
*Attractively labelled  
and presented*

•  
PRICE LIST ON APPLICATION

**Mansfield Road  
Derby Tel.: 48266 (4 lines)**

Also at ASHTON-u-LYNE Tel.: 2816 (3 lines)

THE GIFT SEASON WILL SOON BE HERE—  
BUY YOUR CHRISTMAS WRAPPINGS NOW!



The gift season will soon be here. Now is the time to get your stock of our colourful "Robin" design Christmas wrapping paper. This is printed in three colours, and carries the slogan "Christmas Greetings."

**The Attractive  
"Robin" Design  
WRAPPING PAPER**

will make bright, colourful  
parcels for the gift season

PLACE YOUR ORDER NOW!

Size of sheet, 20" x 30"

REAM	...	...	...	...	...	41/-
144 SHEETS	...	...	...	...	...	12/9
72 SHEETS	...	...	...	...	...	6/8



*Overall size 15½ ins.  
by 10½ ins. Height 6½ ins.*

- Issues a receipt for every customer
- Counts the number of sales
- Gives a complete record of the days takings
- Metal construction. Fully guaranteed

## ... with the **PETCO** **TILL**

The outstanding feature of the Petco till is the duplicate receipt issued for every transaction; this ensures that the exact money taken must go into the drawer. In addition, a device which operates each time the drawer is opened, records the total number of sales and indicates if there has been unauthorised access to the till. All you have to do is to record the amount of the sale and press the release bar. Immediately and automatically the cash drawer springs open . . . the warning bell rings . . . the sales record moves up under the window . . . a receipt is issued for the customer and the counting device records the further sale.

### **The till that makes discrepancies obvious**

**Price 16 gns.**

SEND FOR ILLUSTRATED BROCHURE to the MANUFACTURERS  
**A.G.S. & PETRONIC LTD.**  
 BEL WORKS ESTATE, HAMPTON ROAD WEST,  
 HANWORTH, FELTHAM, MIDDX. Tel.: Feltham 4054

# New & News!

## The Wonder Foods

RECOMMENDED BY



# GAYELORD HAUSER

GAYELORD HAUSER'S dietary methods have had a tremendous influence all over the world.

Now for the first time in Britain, these wonder foods specially recommended by Gayelord Hauser himself are on sale.

This is wonderful news for millions of women, who will be reading about it in the National press. And they'll be looking in your windows and on your shelves for the distinctive packagings, designed for Life & Beauty Ltd. Make sure they find them.



Dried  
Skim Milk  
4s. 10d.  
per 16 oz. tin



Brewers'  
Yeast Powder  
6s. 6d.  
per 16 oz. tin



Brewers'  
Yeast  
Tablets  
5s. 6d. for 250



Wheat Germ  
4s. 6d.  
per 12 oz. tin



Black  
Molasses  
4s. 6d.  
per 2 lb. tin



Vegisalt  
2s. 0d.  
per 15 oz. packet

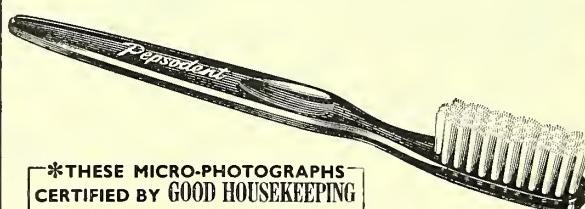
If you haven't yet had stocks of all these great wonder foods write to:

LIFE & BEAUTY LTD · 5 AVERY ROW · LONDON · W·1

# Pepsodent launch NEW toothbrush in the DAILY EXPRESS Nov 10th

With a daily net sale  
of over 4 million

These micro-photos\* show  
only new Pepsodent toothbrush  
has perfectly rounded ends



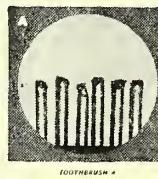
\*THESE MICRO-PHOTOGRAPHS  
CERTIFIED BY GOOD HOUSEKEEPING

We hereby certify that the un-named toothbrushes photographed here were selected by us at random from general dealers' shops, that the Pepsodent toothbrush was selected by us from pictures taken from large stocks in the Pepsodent warehouse; that the photographs are genuine and unretouched at any stage, including the process of reproduction.

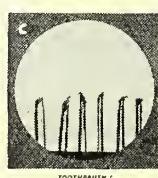
*Lionel M. Tamm*  
Manager, Photographic Studio,  
GOOD HOUSEKEEPING Magazine, 18 Grosvenor Gardens, S.W.1. August, 1951

#### Remarkable photo-evidence:

greater protection for your teeth and gums  
assured by perfectly rounded ends of  
new Pepsodent toothbrush



A fair end unbleached test  
These are real photographs, each of  
exactly the same magnification, of the  
strand-ends of six different makes of  
toothbrush. It is these ends that you  
rub against your teeth and gums.  
Micro-photos A, B, C, D and E are  
of well-known popular makes. Only  
in photograph X—the new Pepsodent  
toothbrush—are the strand-ends  
smooth and perfectly rounded. No  
other toothbrush has ever achieved  
such perfection.



Why the new  
Pepsodent toothbrush  
is the finest ever made

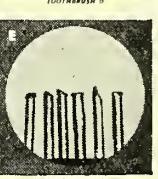
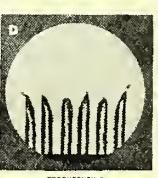
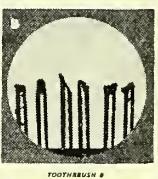
Each strand-end is perfectly rounded  
by a process to which Pepsodent have  
exclusive rights in the United Kingdom

- Flexible, small diameter strands are longer than in other brushes
- Handle allows for flexing if you press too hard



- Bigger brushing area forms continuous brushing surface and reaches all spaces between teeth
- Bar anchoring of strands ensures exact alignment on tooth surfaces

Prove the advantages  
of this unique toothbrush  
for yourself



The new *Pepsodent* toothbrush—2/3



This is telling stuff, this advertising:

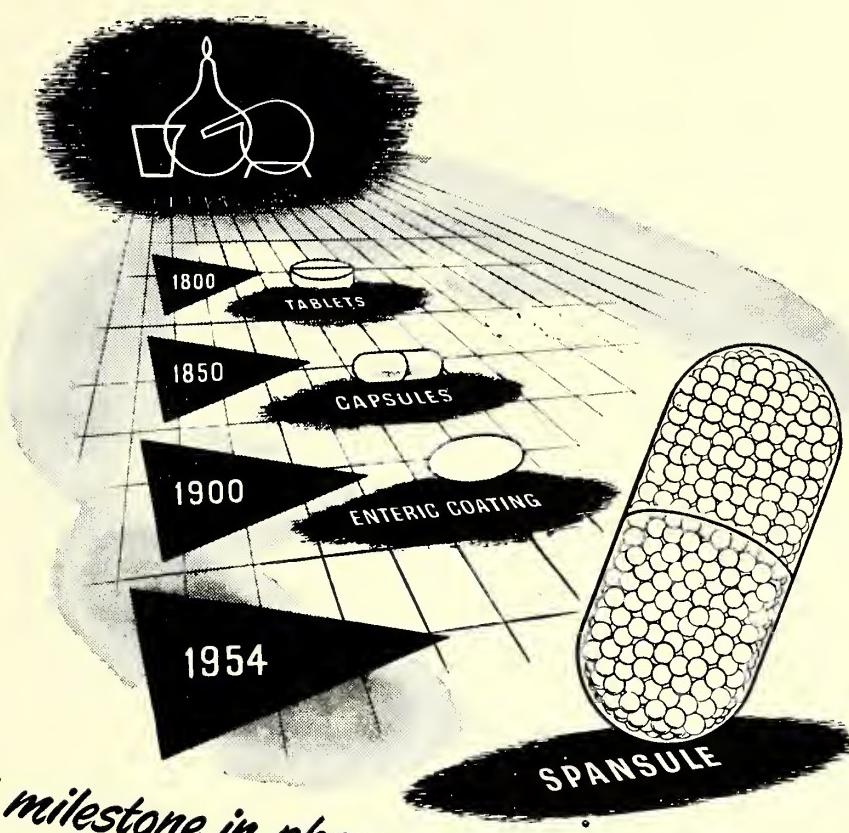
it will do you a lot of good

It starts on Wednesday, Nov. 10th, in  
the most powerful advertising space  
there is—half a page in the *Daily Express*.  
It starts powerful, and it stays powerful.  
You will sell it easily: first, because it  
bristles with new advantages—the perfectly  
rounded ends, the flexible strands,  
the continuous brushing surface, and  
secondly, because it is a handy line

to stock—there is only one type,  
and it is packed in a neat one-dozen  
display.

This one-dozen standard pack can be  
included with other Pepsodent products  
in discount parcels for best terms.

So STOCK UP with the  
NEW *Pepsodent* toothbrush!



*A milestone in pharmaceutical presentation*

**'SPANSULE'** \*

BRAND

## **sustained release capsules**

In 'Spansule' capsules, the drug is distributed among many tiny pellets with varying disintegration times. By this means a uniform and sustained therapeutic effect is achieved over a period of ten to twelve hours—with just one oral dose.  
*The first drug to be presented in 'Spansule' form is*

## **PHENOBARBITONE**

*Phenobarbitone 'Spansule' capsules are available in two strengths, gr. 1 and gr. 1½, in bottles of 30 capsules. Please check that you have ordered your initial stocks.*

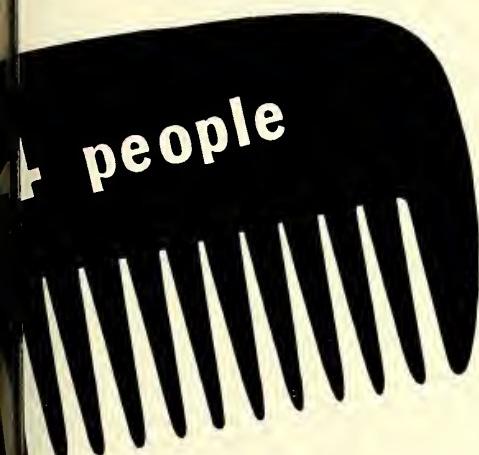
### PRICES

gr. 1 Trade, 53/3 doz.; Retail 5/11 each
gr. 1½ Trade, 59/3 doz.; Retail 6/7 each

**MENLEY & JAMES, LIMITED**, Coldharbour Lane, London, S.E.5  
for Smith Kline & French International Co., owner of the trade mark 'Spansule'

\* Patent applied for





For the scalp-scratchers, shoulder-brushers and comb-clutterers, there's welcome relief with SELSUN Suspension.

Published reports on more than 400 cases<sup>1-3</sup> show that SELSUN completely controls seborrhoeic dermatitis in 81 to 87 per cent of all cases, and 92 to 95 per cent of common dandruff cases. It keeps the scalp free of scales for one to four weeks — relieves itching and burning after only two or three applications. SELSUN is remarkably simple to apply, it quickly reaches all areas of the scalp — leaves the hair clean and easy to manage.

It takes little time. No complicated procedures or messy ointments. Available in 2 and 4 fluid ounce bottles with directions on special label.

*Abbott*

*Recommend* **SELSUN**  
(SELENIUM SULPHIDE, ABBOTT) REGD.

*Suspension*

<sup>1</sup> Slesyan, A. H. (1952), *Arch. Dermat. & Syph.*, 65:228, February.

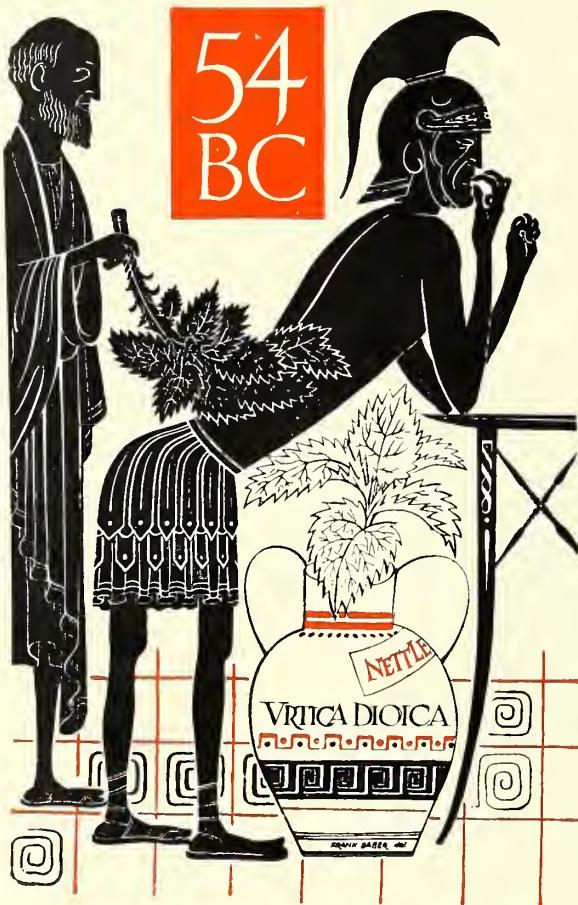
<sup>2</sup> Slinger, W. N., and Hubbard, D. M. (1951), *ibid.*, 64:41, July.

<sup>3</sup> Sauer, G. C. (1952), *J. Missouri Med. Assn.* 49:911, November.

Try SELSUN yourself

Professional sample together with technical literature will be sent on request to

**ABBOTT LABORATORIES LTD • PERIVALE • GREENFORD • MIDDLESEX**



*"When the Romans came to Rye  
and forth to Severn strode,  
They planted then the nettle seed  
beside the English road."*

(Unorthodox version)

Urtication by switching with the common stinging nettle appears to have been an old Roman custom. It is related in Sowerby's "English Botany" that when Julius Caesar landed, his soldiers had with them nettle seeds which they sowed for their own uses as an epidermal stimulant. They had been told that the "climate of Britain was so cold that it would not be endured without some friction to warm the blood," so relieving stiffness and rheumatism.

**arthripax tablets** for systemic therapy and **arthripax penetrating cream** for local relief, effectively replace the interesting but not so effective and therefore outmoded methods of bygone times.

50,000 doctors have again been mailed details of arthripax tablets and cream and an overwhelming number have requested clinical samples. Be ready to meet the ever increasing demand for both tablets and cream. Counter Sales can be increased by displaying and recommending arthripax.

# arthripax

tablets and cream

the dual therapy for the prompt relief of rheumatic  
and other pain associated with muscles and joints

**arthripax tablets**      Retail 64 tablets 7/10 each (incl. P.T.) trade—56/- per doz. (14/- P.T.)  
Dispensing—trade 100 tablets 6/8 plus P.T. 250 tablets 15/4 plus P.T.

**arthripax cream**      Retail 1 oz tube 3/4 each (incl. P.T.) trade—24/- doz. (6/- P.T.)  
Dispensing—trade 4 oz pots 5/8 plus P.T. 8 oz pots 9/4 plus P.T.  
1 oz tubes packed 12 in counter display outer.

## Special bonus offer

24 x 1 oz tubes arthripax cream charged as 20 i.e. £2 plus 12/- P.T.

Earning 1/2 profit on each tube sold.

Bonus parcels carry 10% extra discount if included in order for other CPL preparations  
(including dispensing packings) to the net value of £5 and over.

Bonus orders delivered direct but will be invoiced through wholesaler if desired.

*Detailed price list on request*



CLINICAL PRODUCTS LTD • RICHMOND • SURREY

Telephone RICHMOND 4023/24 4409 5931.

# Genuine Testimony means Satisfactory Sales



## TREAT THEM TO FITNESS

This testimonial tells how one sufferer gained relief by using the Thermasseur.

There are many other endorsements on our files of this appliance's success. The Thermasseur's 3-Fold therapy, Heat+Massage+Infra Red is penetrating deeply into your market for pain relief. It provides soothing treatment for rheumatism, for skin diseases, for sprains and fractures and for nerve fatigue. The patient, the athlete and the worker can gain benefit from a persistent self-applied course. A portable self-contained electrical instrument that can be used all over the body, inexpensive to purchase and maintain, the Thermasseur is a line which has constructive sales all the year round.

RETAIL PRICE

**£4.19.6**

(complete inc. tax)

Dear Sirs,

My wife suffers from fibrosis due to a weakness induced by colitis, and it seems unlikely that any permanent cure of the basic trouble can be effected. She does, however, find that relief is obtained for weeks at a time by massaging with the Thermasseur after application of an ointment prescribed by her doctor, and sometimes even without this ointment. I lent the instrument to a neighbour the other day with grateful success. . . .

Signed J. C.



### SELF- APPLIED 3-FOLD THERAPY

The Thermasseur is recommended for Rheumatism, Fibrosis, Myalgia, Sciatica, Neuralgia, Lumbago, Gout, Athletes' injuries, Post Fracture treatment, Sprains, Wounds, Lesions, Stiff Neck, Tennis elbow, and fatigued nerves. Advertising in Consumer and Medical publications is telling customers this and explaining how the Thermasseur therapy operates.

**FEATURES include :—**  
Portable case; Actual instrument 6 oz, weight; 6 ft. lead and adaptor for holder or socket; operates at 6 volts from A.C. mains; 10-20 minutes' treatment 2/3 times daily usually effective; 12 months' guarantee.

★ Send for a supply of Colour Show-cards, and Descriptive Folder K for your Display.

## The Thermasseur

THE SAFE AND SURE ELECTRIC HOME MASSEUR

E. WALKER & CO. (Electrical Engineers) LTD.

Therapeutic Division, PHOENIX WORKS, THE HYDE, HENDON, N.W.9

*Introducing*

**HELVIA**

LEEDS TRADE MARK

**FLEXIBLE  
FIRST-AID DRESSING**

*in the NEW  
Extra Hygienic  
Pack!*

- Ideal for Home, Sport, Motoring, and all occasions when a small pack is required.
- Made up in continuous lengths of 1 yard  $\times$  1½", 2½" and 3" wide.

This attractive new pack is of the enclosed 'pull-out' dispenser type. More hygienic because the bulk of the dressing is completely protected and untouched by hand, and more convenient because there are no odd strips or loose patches—you simply snip off the exact length as and when required. Arrange now through your WHOLESALER to stock and display HELVIA—the last word in modern First-Aid Dressing.

★ Sold only through Leading Chemists

**LESLIES LTD.** WALTHAMSTOW LONDON E17  
Etab. 1823

## THE CARDINAL INFRA-RED AND RADIANT HEAT APPARATUS

for  
**RHEUMATISM  
ARTHRITIS**

&c.  
is the  
best and  
easiest  
to sell.

£6 4s. 0d.

Also the  
Cardinal Ultra-  
Vitalux  
Apparatus  
Coronation  
Model No. 2  
£10 12s. 0d.  
Medical  
Certificate  
required.

Coronation Model No. 6

25% Retail discount, post free.

Send for particulars, and display cards to :

**ULTRA-VIOLET LIMITED**

Avenue Chambers, Vernon Place, London, W.C.1

IN LONDON

# askit

*stocked and supplied by :*

Allied Drug & Chemical Co., N.W.1  
Barclay & Sons Ltd.

Brooks & Warburton Ltd., S.W.1

Butler & Crispe Ltd., E.C.1

R. Hovenden & Sons Ltd., E.C.1

May, Roberts & Co. Ltd., N.16

Wm. Martindale & Sons Ltd., W.1

Sangers Ltd., N.W.1

United Chemists Association Ltd.

*and other leading wholesale  
houses throughout the country*

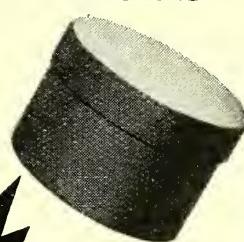
ASKIT LTD., MANUFACTURING CHEMISTS, GLASGOW N.

**STANDARD ROUND BOXES  
FOR THE CHEMIST—**

"LITTLE JOHN"  
DRUMS



PILL  
BOXES



"SEALITE"  
OINTMENT  
BOX

"CHEPETTE"  
PILL & OINTMENT BOX



ALL AVAILABLE FROM STOCK THROUGH YOUR USUAL SUPPLIER  
**ROBINSON & SONS LTD WHEATBRIDGE MILLS, CHESTERFIELD**

Telegrams: 'BOXES' CHESTERFIELD      Telephone: 2105 (6 lines)

and

KING'S BOURNE HOUSE, 229-231 HIGH HOLBORN, W.C.I  
Telegrams: OMNIBOX HOLB. LONDON      Telephone: HOLborn 6383



## SPECIAL BONUS OFFER

**'ENDRINE'**

Trade Mark

## NASAL COMPOUND

**FOURTEEN TO THE DOZEN ON A MINIMUM ORDER**

of 2 dozen 'ENDRINE' Nasal Compound 1 oz. size, any variety, \* during November. The approaching Winter will undoubtedly raise the incidence of colds and catarrh and the sales of 'ENDRINE' are therefore certain to increase considerably.

Take advantage of this seasonal peak business by displaying 'ENDRINE' for 14 days and thus participate in the highly profitable 'ENDRINE' sales.

**Your profit is 24/8d. on the small outlay of 45/4d. (excl. P.T.)**

*Your usual wholesaler can execute your order by return.*

\* 'Endrine' is supplied in 3 varieties, Ordinary, Mild and Isotonic.

*John Wyeth & Brother Ltd., Clifton House, Euston Road, London, N.W.1.*

For more than 100 years  
**CAMTHOL**  
has been recommended  
for COUGHS & COLDS



**CAMTHOL LINCTUS**  
The Cough mixture for Adults  
**CAMTHOL PASTILLES**  
In tins suitable for pocket and handbag  
**CAMTHOL VAPOUR RUB**  
Incorporating the finest Essential Oils



BONUS—Thirteen to the dozen on all orders

	Retail	per doz.
CAMTHOL LINCTUS	2/9 per bott. inc. P.T.	Cost 25/-
CAMTHOL PASTILLES	1/9 per tin inc. P.T.	Cost 15/-
CAMTHOL VAPOUR RUB	1/9 per jar inc. P.T.	Cost 15/-

**B. HOOPER & CO. LTD.**

6 RAILWAY PLACE, FENCHURCH STREET,  
LONDON, E.C.3.



P6

*Lastonet*  
PRODUCTS

Popular  
and  
profitable

Elastic Net Bandage (above)  
Supplied with ordinary  
National Health prescription.  
The fine elastic net provides  
firm, constant support without  
restricting movement.

Metatarsal Pad (right)  
Chamois covered foam  
rubber pad with band of  
Lastonet. Exerts corrective in-  
fluence to relieve arch strain  
and tired feet.

Arch Binder  
Affords relief in  
cases of strained  
arches.

Finger Stalls  
Require no strap  
or binding. In  
five sizes.

Adjustable Brace  
Attachment. Elastic  
For male wearers  
of surgical stockings



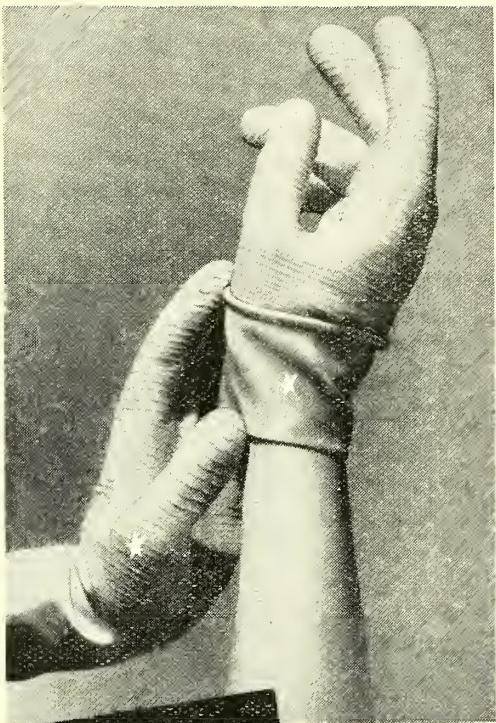
\*Liberal discount to all stockists

LASTONET PRODUCTS LIMITED, CARN BREA, REDRUTH, CORNWALL

Different from other rubber gloves  
BECAUSE they are :—

SUEDETTE LINED  
they are also  
CREPE FINISHED  
on outside  
NO CHALK needed

They PUT ON and TAKE OFF like  
ORDINARY GLOVES



We believe them to be  
the BEST rubber glove IN  
THE WORLD

PRICE per pair 3/9

J. ALLEN RUBBER CO. LTD. LY - GLOS.

# Marigold HOUSEHOLD GLOVES

— Nationally Advertised

★ Are YOUR stocks  
sufficient to meet  
the demand?

Everybody's • Everywoman  
Good Housekeeping  
Home Notes  
Homes and Gardens  
Housewife • Ideal Home  
Illustrated • Lady  
My Home  
News of the World  
Picture Post • Queen  
Smallwares  
Vanity Fair • Vogue  
Woman and Beauty  
Woman & Home  
Woman's Journal  
Woman's Own

J. ALLEN RUBBER COMPANY LIMITED • WHITECROFT NR. LYDNEY • GLOUCESTERSHIRE

**We manufacture in bulk**

**RAUWOLFIA SERPENTINA  
TOTAL ALKALOIDS  
including RESERPINE**

**For Prompt air shipment**

**contact MEHTA BROTHERS**

P.O. Box No. 35 AMRITSAR (INDIA) Telegrams: VIRINDER AMRITSAR. Telephones: 311/10 & 777

**PLJ**

*is lemon juice . . .*

The natural, undiluted, very pleasant juice of fully-ripened Sicilian lemons. Many thousands of women are now drinking P.L.J. regularly to keep their skin clear and fresh. Once in the home, they use it for a hundred other purposes. To make real lemonade. To dress salads. To whiten finger-nails and elbows. To rinse hair. And so on. The lemon is a versatile fruit—and anything a lemon can do P.L.J. can do better!

At 2/6 a bottle (4/- for the economy size) P.L.J. is a good purchase. That's why sales are soaring. That's why you should lay in good stocks of this regular selling line.

*...in a bottle!*

P.L.J. CROYDON



**"SURGEZA"  
SURGICAL  
DRESSINGS  
in 'Carton' Pack**

**More Chemists ask for  
"SURGEZA" CARTON PACK  
DRESSING**

*Orders and Enquiries :*

**CHEMISTS' SUNDRIES (Preston) LTD.  
BAMBER BRIDGE · PRESTON · LANCS**

*Phone : 85403*

# SEE Owbridge LINES

Write now for full price list of OWBRIDGE'S LUNG TONIC,  
PASTILLES & ASPIRIN



**W. T. OWBRIDGE LIMITED • OSBORNE STREET • HULL**

# Silvikrin

## IS NOW THE FASTEST SELLING LIQUID SHAMPOO!



PACKETS OR CASH, whichever way you look at it, chemists are now selling more Silvikrin Liquid Shampoo than any other brand. And some chemists are selling eleven times more Silvikrin shampoo than others *because they are displaying it on the counter!* You cannot make more profitable use of your valuable counter space.

## Silvikrin Shampoos

POWDER ★ LIQUID ★ CREAM

MADE BY SILVIKRIN LABORATORIES • HONEY POT LANE • STANMORE • MIDDLESEX

# THE DISTILLERS COMPANY (Biochemicals) Limited

*From Monday November 1*

## PENICILLIN

*will be reduced in price to*

**2/3d per mega unit**

*(Subject to the usual discounts)*

Full details of  
the new prices  
appear elsewhere  
in this issue.

Once again, the continuing improvements in penicillin manufacture makes possible a further reduction in its price.

Applications from the retail and wholesale trade for credit on stocks held at closing time on October 30 should be made within 14 days to the supplier by whom the goods were invoiced, quoting batch numbers.

STREPTOMYCIN also will be reduced in price to 2/10½ per mega unit from next Monday, November 1. Same rebate facilities available as for penicillin.

*Distributed by*

ALLEN & HANBURY'S LTD.	EVANS MEDICAL SUPPLIES LTD.
BRITISH DRUG HOUSES LTD.	IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.
BURROUGHS WELLCOME & CO.	PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

**THE DISTILLERS COMPANY (BIOCHEMICALS) LIMITED**  
DEVONSHIRE HOUSE · PICCADILLY · LONDON · W.1



# Snowfire



## beauty preparations

### **REVISED PRICES**

*Retail Price  
including  
Purchase Tax*

#### **VANISHING CREAM FOUNDATION**

<i>Handbag containers . . . . .</i>	<b>9d</b>
<i>Small jars . . . . .</i>	<b>1/5d</b>
<i>Large jars . . . . .</i>	<b>2/4d</b>



#### **FACE POWDER**

<i>Handbag containers . . . . .</i>	<b>9d</b>
<i>Boxes . . . . .</i>	<b>1/5d</b>



#### **COLD CREAM**

<i>Handbag containers . . . . .</i>	<b>9d</b>
<i>Small jars . . . . .</i>	<b>1/5d</b>
<i>Large jars . . . . .</i>	<b>2/4d</b>



#### **LIPSTICK**

<i>Small size . . . . .</i>	<b>1/-</b>
<i>Regular size . . . . .</i>	<b>1/6d</b>

**F. W. HAMPSHIRE & CO. LTD.**

*SUNNYDALE, DERBY*



**13**  
—  
**12**

## SPECIAL WINTER bonus offers

OF 'MENTHOFAX' AND 'WELLCOME' TOILET LANOLINE

For three months, from 1st November until 31st January (in the United Kingdom only) all orders for complete dozens of 'Menthofax' and of 'Wellcome' Toilet Lanoline will be supplied "13 to the dozen".

### 'MENTHOFAX'...

deeply penetrative, clean and economical, presents a valuable combination of anodyne and rubefacient substances for relief of muscular aches and pains. Issued in glass jars of  $\frac{3}{4}$  oz., packed in smart display outers of one dozen jars. Retail price : 2/6 plus 6d. purchase tax.

### 'MENTHOFAX'

BRAND

COMPOUND METHYL SALICYLATE OINTMENT

### 'WELLCOME' TOILET LANOLINE...

smooth, emollient, delicately perfumed, is an established favourite for protecting the hands from "winter roughness". In tubes of 1 oz., in attractive display outers holding one dozen tubes each, this elegant preparation retails at 1/6 plus 10½d. purchase tax.

### 'WELLCOME' TOILET LANOLINE



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

# COW & GATE

# Baby Powder



Something new for Baby and something very comforting. The new Cow & Gate Baby Powder is a delicate and delightful preparation ideal for Baby's tender skin. Its cooling, soothing influence is just what Baby needs after the bath or during the heat of the day. It brings contentment, freedom from irritation — and encourages sound, refreshing sleep. Lightly perfumed, slightly borated, pure and refined.

## FOR COMFORT AND CONTENTMENT

*Display Stands and promotion material  
available upon application to :*

**COW & GATE LIMITED**  
**GUILDFORD**

5131

## — PRICE REDUCTIONS —

ELI LILLY & COMPANY LIMITED

*Announce the following price reductions for Ampoules 'DURACILLIN A.S.'  
as from Monday, November 1st, 1954.*

	OLD PRICE	NEW PRICE
'DURACILLIN A.S.' 10 c.c. ampoule	9/6d.	8/1½d.
'DURACILLIN A.S.' 1 c.c. ampoule	2/7½d.	2/3d.

*The above are retail prices, exempt from purchase tax*

Applications from retail pharmacists for credit on stocks held at closing time on October 30th, should quote batch numbers, and should be made direct to Eli Lilly & Co. Ltd., within 14 days.

*Lilly*  
TRADE MARK

ELI LILLY & COMPANY LIMITED • BASINGSTOKE • HANTS



"*Skylon*"

## CHRISTMAS LINES



Only the genuine  
"SKYLON"  
bears this  
mark.

**Look—the "SKYLON"**  
**FAIRY BALL Polythene bottle**  
**—the most attractive Line**  
**yet to be added to the**  
**"SKYLON" range—in four**  
**pastel shades with contrasting**  
**gilt caps it is the ideal**  
**Christmas gift which sells**  
**on sight.—THE LADIES JUST**  
**CAN'T RESIST IT!**

Place your orders with  
your Wholesaler  
NOW.

ACORN 5073

**FIBRENYLE LTD.**  
157 DUKES ROAD • LONDON • W.3



# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland*

Volume 162

October 30, 1954

No. 3897

## CONTENTS

British Fine Chemicals	...	...	447
British Pharmaceutical Conference:—			
Authors	...	...	453
Science Papers	...	...	452
Correspondence	...	...	446
Hospital Pharmacy Forum	...	...	447
In Parliament	...	...	436
Leading Articles:—			
Battles of the Broad Spectrum	...	...	445
Overseas Trade in September	...	...	445
Marriages	...	...	438
Medical Abstract	...	...	449
Peppermint Oil Deal	...	...	439
Pharmaceutical Society of Ireland:—			
Council Meeting	...	...	448
Photographic Studies Course	...	...	450
Scottish Department Dinner	...	...	442
Students' Vacation Work	...	...	439
Terramycin in Britain	...	...	443
The Late Mr. Howard Bayles	...	...	437
Topical Reflections	...	...	435
Trade Notes and New Products	...	...	440
Business Changes	...	438	P.A.T.A. .... 456
Coming Events	...	442	Personalities .... 438
Company News	...	438	Price Changes .... 456
Deaths	...	437	Scottish News .... 434
Information Wanted	...	444	Trade Marks .... 456
Inquest	...	439	Trade Report .... 454
Irish News	...	435	World Trade .... 442

INDEX TO ADVERTISERS, Pp. 5 & 6.

EDITORIAL AND PUBLISHING OFFICES  
28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565  
Telegrams: Chemicus, Estrand, London

Branch Offices:  
BIRMINGHAM, 2: 111 New Street.  
Phone: Midland 2921

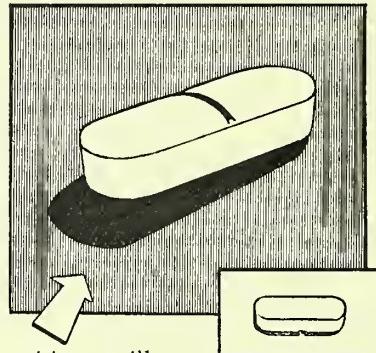
GLASGOW: 24 Dixon Road, S.2. LEEDS, 16: 32 Wynford Rise,  
Phone: Pollock 4802 West Park. Phone: Leeds 78438

ANNUAL SUBSCRIPTION, which includes The Chemist and Druggist Diary and Year Book, £2. Single copies one shilling each.

**CIBA**

## Hormone 'Linguets'

An entirely new shape of 'Linguet' incorporating an identification scheme of colour and transverse markings will replace the present disc shape on



1st November 1954

A communication giving details and the method of exchanging stock has been sent to all Retail Pharmacists.

'Linguets' is a registered trade mark. Reg. user

**CIBA LABORATORIES LIMITED · HORSHAM · SUSSEX**  
Telephone: Horsham 1234   Telegrams: Cibalabs, Horsham

6/4

## 'Own Lines'

## *mean better profits!*

**Sodium Lauryl Sulphate**  
for Powder and Cream  
Shampoos.

**Ammonium Thioglycol-**  
**late** for Cold permanent  
waving solutions.

**Triethanolamine Lauryl**  
**Sulphate** for Liquid  
Shampoos.



Technical advice available



All essential ingredients  
supplied in small quanti-  
ties for trial purposes.

\* *make up*  
*your own*  
**SHAMPOOS**  
**and HAIRWAVING**  
**SOLUTIONS**

Consult

**TAYLOR REESON**

Laboratories Ltd

23-28 PENN STREET, LONDON, N.1

Telephone: SHOreditch 5125/6



# The CHEMIST AND DRUGGIST

Volume 162

OCTOBER 30, 1954

No. 3897

## Cohen Committee Explains HOW PROPRIETARIES WERE CLASSIFIED

THE Joint Committee on Prescribing (Cohen Committee) in its final report published on October 28 stresses a number of points to "correct any misapprehensions which may have arisen about our work."

The Committee's major task over a period of three years under the chairmanship of Professor Sir Henry Cohen was the classification of approximately 5,000 proprietary preparations. Lists showing preparations classified in categories 1, 5 and 6 were sent to doctors in July 1953 (see *C. & D.*, July 25, 1953, p. 73). The Committee in its present report "assumes that doctors will be advised of preparations classified in categories 2, 3 and 4 as and when prices are agreed."

Among points stressed by the Committee are:—

That all classifications were made by the Joint Committee itself and were based upon disclosed formulas and, where appropriate, the relationship to standard preparations. The classification of a preparation does not imply that the Joint Committee necessarily concurs fully with the manufacturer's claims for its therapeutic value.

That when necessary the Joint Committee sought advice from acknowledged experts in their respective fields who were not members of the Committee, and initiated inquiries into alleged therapeutic activity.

That classification of a preparation in category 5 does not imply that the preparation has been proved to have no therapeutic value; it means that the evidence available to the Committee does not justify its use as a therapeutic agent. If the work of classification is continued [it is being continued (as recommended by the Committee in the present report) by the Standing Joint Committee on Classification of Proprietary Preparations (see *C. & D.*, August 28, p. 198)], a preparation can be reviewed at any time if further evidence of its therapeutic value is submitted. The same considerations apply to preparations in category 6, in so far as they contain drugs which have not been proved to be of therapeutic value.

That no preparation has been placed in category 5 solely on the grounds that it has toxic side effects. Those hazards occur in varying degree and frequency in many standard preparations and in many which are included in our categories 1 to 4.

### URGENT MEDICINES

#### New London scheme

130 LONDON chemists who are resident on their business premises are participating in a new scheme prepared by the London Executive Council for the dispensing of urgent prescriptions at any time during the night. Under the scheme, doctors are being issued

with cards giving the names, addresses and telephone numbers of chemists participating, arranged in postal district order. The cards also indicate whether oxygen is stocked or not. Doctors are asked at the top of the cards to mark their prescriptions with the word "urgent" and the time, and to direct their patients to a chemist in their nearest postal district. The chemists are not obliged to remain at home.

### DANGEROUS DRUGS New order

A NEW Dangerous Drugs Order affecting 3 - dimethylamino - 1:1 - di - (2 - thiienyl) - 1 butene, 3 - ethylmethylamino - 1:1 - di - (2 - thiienyl) - 1 butene, and 6 - piperidine - 4:4 - di - phenylheptan - 3 - one, was made on October 19 and is in operation from November 1. The Dangerous Drugs Act, 1951 (Application) (No. 2) Order, 1954, applies Part III of the Dangerous Drugs Act, 1951 (which prohibits import or export of any drug covered by Part III except under licence) to those drugs, their salts and any preparation, admixture, extract or other substance containing any proportion of any of those drugs.

### FOLKESTONE VENUE For Franco-British congress

THE fifth Franco-British Pharmaceutical Congress is being held at Folkestone from April 15 to 28, 1955, following the 1954 Congress which met at Dinard, France. The mayor and corporation are entertaining members on the first evening, and there is a business session next morning. A banquet is planned later, and on Sunday the Congress will visit Sandwich and Rye, and tour Canterbury. Provisional bookings can be made by writing to the secretary, Franco-British Pharmaceutical Commission, 17 Bloomsbury Square, London, W.C.1.

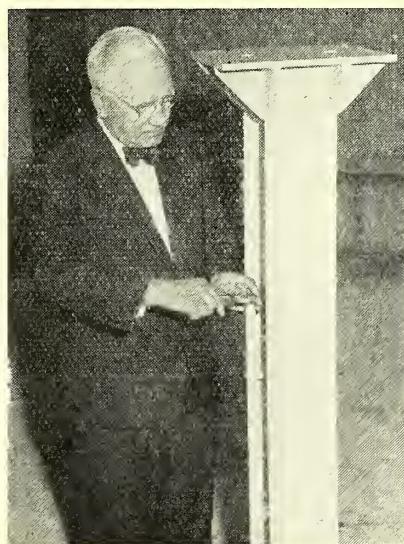
### PURCHASE TAX Move to stop evasion

A NEW move by the Commissioners of Customs and Excise to prevent evasion of purchase tax and "to enable them to adopt a somewhat more liberal policy" over the registration of whole-

salers, is contained in a notice issued to all registered traders. The notice states that in certain cases in order to secure effective control over the tax it is important that the Department should have independent information as to any new sources from which particular registered traders are obtaining their supplies of chargeable goods. "The Commissioners have therefore decided that they must ask traders who are registered for purchase tax to keep a running record of all new customers buying chargeable goods tax-free as registered traders, and of all old customers similarly buying chargeable goods tax-free for the first time as registered traders."

### PHYTOPHARMACY London lecture

AT a meeting of the Pharmaceutical Society at 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. on November 8, Professor G. Valette (professor of pharmacodynamics in the University of Paris) is lecturing on "The Rôle of the Pharmacist in Phytopharmacy in the Present and the Future." The lecture will show why it is profitable to agriculture and to pharmacy for pharmacists to become acquainted with all the problems of plant protection, and how they should be dealt with, including a knowledge of parasites and the damage caused by them, diagnosis and treatment. The legislation connected with toxic substances used in agriculture will also be discussed, to-



**ANTIBIOTIC PLANT LAUNCHED:** Sir Alexander Fleming, F.R.S., sets in place a commemorative foundation cap at the new fermentation plant of Pfizer, Ltd., Richborough, Sandwich (see p. 443).

gether with the organisation of the teaching of phytopharmacy in the Faculty of Paris and in other Faculties, and the results obtained in professional practice. The activity of pharmaceutical organisations in connection with phytopharmacy will be mentioned.

### NOBEL PRIZE For virus research

THE 1954 Nobel prize for medicine has been awarded jointly to Drs. John F. Enders, Thomas Weller and Frederick Robbins, of the Children's Hospital, Boston, U.S.A. The prize was worth about £12,500, the largest amount ever awarded by the foundation, and was given to the three Americans for "their discovery of the ability of poliomyelitis virus to grow in cultures of different tissues." The doctors, while working together on research at the Boston Children's Hospital in 1949, developed new methods which involved the cultivation of poliomyelitis virus in test tubes on minute pieces of living tissue from ape or man. That made possible not only the close study of all phases in the development of different virus types in the test-tube but also the production of virtually unlimited amounts of virus to be used as vaccines. Nobel Committee experts said that those methods had revolutionised the study of poliomyelitis and formed the basis of later developments of vaccines against poliomyelitis.

### MENTAL HOSPITALS, 1953 Shortages of beds and staff

THE report of the Board of Control for 1953 (H.M. Stationery Office, price 6d.), states that the number of patients in mental hospitals increased during 1953 by 2,096, compared with an average increase during the past five years of 1,309. The total number of inpatients was 139,135, an excess of 18,923 over the existing capacity of the hospitals. For various reasons 2,945 beds were not available for use, the shortage of nurses accounting for 1,099 of these. At the end of the year trained nurses numbered 7,712 men and 4,610 women, compared with 7,487 and 4,410 respectively at the end of 1952, but the report expresses disquiet at the decline in the number of student nurses of both sexes.

### RETAIL SALES IN AUGUST

RECENTLY issued Board of Trade figures show that sales of chemists' goods by large retailers were 11 per cent. lower in August than in July, and 4 per cent. higher than in August 1953. Comparative figures for independent retailers were 3 per cent. lower and 4 per cent. higher respectively.

### CAUSES OF DEATHS

ACCORDING to the Registrar General's return for the June quarter, 1954, published on October 14 deaths from respiratory tuberculosis in the March quarter were 15 per cent. lower than in 1953 and deaths from influenza were the lowest recorded for a March quarter since 1948. While deaths from pneumonia and bronchitis were much

lower than in the previous year, when there was a mild influenza epidemic, they were above the low level reached in 1952. Accidental deaths from poisoning among women increased. A table giving the loss of years of life which can be assigned to the main causes of death shows that even at ages under sixty-five cancer and heart disease take the heaviest toll of life.

### PHARMACY BLAZE

CONSIDERABLE damage was caused by fire recently to the premises of Mr. Patrick F. Farrell, M.P.S.I., at Templeshannon, Enniscorthy, co. Wexford.

### COLLEGE PRIZE-GIVING

AT the annual prize-giving ceremony of the department of pharmacy and physiology of Portsmouth College of Technology, held on October 13, MR. J. C. BLOOMFIELD (a member of the Pharmaceutical Society's Council) addressed the students on "The Responsibilities of a Pharmacist." He said that the passing of an examination did not of itself infer that the student would be a good pharmacist, and he stressed the importance of the period of practical training. Pharmacists, he continued, also learned that they owed a responsibility to themselves, to their colleagues and to the public. It should be the constant aim of every pharmacist to try to raise the status of his profession, and by his actions bring no discredit upon himself and his colleagues. It was the respect, esteem and regard in which they were held, both individually and collectively, that signified their status. In college there was engendered among students a spirit of camaraderie, typifying a willingness at all times to help fellow students. That was even more necessary when one was qualified. Mr. Bloomfield went on to plead for active branch membership. All pharmaceutical students, he said, were warmly welcomed at branch meetings. By attending such meetings not only would they enhance their own pharmaceutical knowledge but enjoy the contact with their professional colleagues. The structure of the Society was built within the framework of the branch system, and too few pharmacists were prepared to shoulder the responsibilities which active branch membership entailed. He concluded by stressing the responsibility the pharmacist owed to the public. MR. E. THORPE (head of the department) presenting the report of the 1953-54 session, said that there had been forty-one full-time students in the final courses. Research work was being carried out by four members of the staff. Close contact with the local branch was maintained, two members of the staff having served on the branch committee and as branch representatives. The prizes were presented by MR. L. J. CHAMBERLAIN (chairman of the Portsmouth Branch). The prize winners were:—Miss M. D. Elmes (Ferryman prize (pharmaceutical chemistry), J. C. Bloomfield prize (physiology and pharmacology), Boots' prize (all subjects) and Bournemouth Branch prize); Mr. D. P. Mulholland (Evans' prize (pharmacology), Portsmouth Association

prize (pharmacognosy)); Miss L. I. Randall (Chairman, Portsmouth Branch prize (practical pharmaceutics), THE CHEMIST AND DRUGGIST (for note books)); Mr. D. F. Brint (Timothy Whites & Taylors prize (all subjects)).

### SCOTTISH NEWS

#### LANARKS N.H.S. COSTS

AT a meeting of the Lanarkshire Executive Council, on October 20, it was stated that a report will be made soon on investigations into the prescribing by ten doctors with the biggest drug bills in the county. Sir William Marshall (chairman) stated that consultations would take place shortly between the medical and pharmaceutical sides of the service in Scotland to see what action could be taken to limit what seemed at present to be an extravagant expenditure of public funds. He added "It is difficult to agree that the amount being spent on drugs and appliances is necessary in the interests of the public. Some of the newer drugs are expensive and some of them are valuable. In those cases the executive councils are glad to be able to provide them. But it is also true that a great many expensive drugs are still of doubtful therapeutic value." Dr. J. P. McMillan, Motherwell, emphasised that the investigation in Lanarkshire in no way implied that doctors in the area were overprescribing. In the cases selected the prescribing was 100 per cent. and in some of them nearly 200 per cent. higher than the average in the county. The council approved a revised estimate of expenditure of £1,574,870 for 1954-55, £49,795 more than the original, including pharmaceutical services £601,090.

### PHOTO DEALERS' PROTEST

CLAIMING that their businesses were being prejudiced, Troon, Ayrshire, chemists and photographic dealers have protested to the town council against the sale of films by a firm that holds the photographic rights on the esplanade. The town clerk has said that the protest had originally been submitted to the firm who had replied that the materials were supplied to them by the manufacturers who before making the supplies available, satisfied themselves that the sales would take place outside a certain radius of other dealers of the same manufacturer's. After hearing the town clerk explain that the terms of the firm's contract permitted them only to operate a walking picture service, the council upheld the complaint, holding that "it is not in the proper interests of local firms that the firm should be allowed to sell photographic spools."

### MORE LIBERTY WANTED

WAYS and means for making the National Health Service a first-rate service for the public were discussed by Sir Hugh Linstead at a political meeting in Edinburgh recently. This could be done, he said, by insisting on the quality of the men in all branches of the service and giving them as much professional and financial liberty as possible. There was a human need

for personal attention, and yet the imperious demand was for scientific developments, centralisation, and impersonality. The Service could be in tune with modern scientific developments without losing the essence of personal humanity which the patient desired.

## IRISH NEWS

### EXAMINATION RESULTS

TWENTY-SIX of the forty-eight candidates who sat for Part II of the Licentiate examination of the Pharmaceutical Society of Ireland held in October were successful. The new licentiates are:—P. J. Bondfield, P. W. Corish, C. Cosgrave, Margaret Diver, Julianna C. Flood, J. C. Gorry, D. G. Grace, M. Guerin, Hannah Hallinan, Teresa N. Landers, P. J. Lemasney, J. Lennon, Attracta McDonnell, Carmel McDonnell, J. J. McDonnell, Margaret McGuinness, J. G. McHugh, Norah C. McNally, J. S. J. Mulrooney, Mary P. Murphy, P. J. Nolan, J. F. O'Connor, Dorothy O'Grady, R. J. Pattison, T. Walsh, and T. A. Wickham. Two candidates entered for the Registered Druggist examination but neither passed.

## NEWS IN BRIEF

A TRADERS' association has been formed at Bracknell New Town, Berks, with Mr. H. C. Craft, M.P.S., as secretary.

THE President of the Board of Trade has appointed Mr. H. Douglass to the Export Credits Guarantee Department's Advisory Council, in succession to Mr. T. Williamson.

MISS WINIFRED ATWELL has consented to become a vice-chairman of the Finchley Division of the North London Pharmaceutical Association, states the Division's first *Bulletin* issued recently.

To mark the octo-centenary of the granting of Derby's first charter (1154-1954) the Derby Branch of the Pharmaceutical Society has presented the town's corporation with a silver cigarette box.

MR. R. C. CRISP has been co-opted Treasurer for the remainder of 1954-55, of the Exeter Branch of the Pharmaceutical Society, in place of Mr. R. H. Trickey, who has resigned on leaving the district.

THE president of the Royal Commercial Travellers' Schools Maintenance Appeal 1954 (Mr. Basil N. Reckitt, chairman, Reckitt & Colman, Ltd.), asks for contributions towards the £50,000 needed for the running of the schools to be sent to him c/o Mr. A. H. Carpenter, secretary, Royal Commercial Travellers' Schools, 48 Broadway, London, S.W.1.

ACCORDING to the Ministry of Agriculture's annual report on the animal health services, there were 978 outbreaks of fowl pest in Great Britain during 1953, involving the slaughter of nearly 600,000 birds and the payment of compensation amounting to over £465,000, compared with 322,645 birds slaughtered and £340,243 compensation paid in 1952.

## TOPICAL REFLECTIONS

By Xrayser

### Health Resorts

The earnest student has a further opportunity this week of continuing his inquiries into the financial problem of N.H.S., this time under the tutelage of the Minister himself. Speaking to the Executive Councils Association at Southport, Mr. Iain Macleod surveys the drug bill and analyses the situation (p. 409). What has been variously referred to as "the bottle habit" or "the national thirst," has now become "the bad national habit of persistent medicine taking." Mr. Macleod's complaint is the crippling cost of a mass of medicine which most doctors agree is largely unnecessary (note the "most" and "largely"), and he reproaches those who resort to the medicine bottle instead of getting down to the real cause of the trouble. I find this reasoning a little difficult to follow. Obviously, the only kind of medicine-taking which concerns Mr. Macleod is that coming within the scope of N.H.S. It seems to me, therefore, that before these people can resort to the bottle, they must resort to their medical adviser. Consequently, this part of the Minister's criticism is, in effect, a criticism of the professional judgment of the doctor. Let us now look at the other part of his statement—"instead of getting down to the real cause of the trouble." Precisely what is he advocating here? I feel certain he does not mean self-diagnosis. And if the patient resorts to his doctor, in an attempt to get down to the real causes, and the doctor resorts to the bottle, how far have we got?

### Mr. H. B. Mackie

It must have given Mr. Mackie great satisfaction to have been honoured by former students on the occasion of his retirement (p. 413). So often the teacher is taken for granted. He sows the seed, but it is but rarely he is permitted to see the harvest. That the seeds were of good quality and scattered in fertile soil is evident from the impressive list of those who paid tribute on this memorable occasion. Former students who have made their mark in retail pharmacy, medicine, hospital, industry, research and administration, stand as a lasting testimonial to the character and thoroughness of the dominie. Pharmacy has been fortunate indeed in the matter of good teachers.

### The Romance of Perfumes

The first of a new series called *Selling Perfumes* (p. 425) will be welcomed by your readers. The article set me browsing through old volumes of THE CHEMIST AND DRUGGIST, and I found, as I expected, that scarcely a year passes without some interesting material on this fragrant subject. Twenty years ago, an address was delivered to the Dublin Rotary Club, by W. B. Conyngham, M.P.S.I., with the title I have borrowed to head this paragraph. Historically, this was a splendid piece of work, and the author traced the use of aromatics to the part they played in primitive worship. It appears that the art of perfume came from the Egyptians, and the address recalled that the opening of the tomb of Tutankhamen revealed unguent vases containing quantities of aromatics which were still fragrant. Helen of Troy acquired her transcendent beauty by means of cosmetics imparted to her by Venus. From Greece to Rome, and from Rome to Arabia, the fragrant trail is followed. The use of orange blossom by brides is attributed to the Saracens. Mr. Conyngham quoted an old English Act sounding this awful warning: "That all women, of whatever age, rank, profession or degree, whether virgins, maids or widows that shall from and after such Act, impose upon, seduce and betray unto matrimony any of his Majesty's subjects by the scents, paints, cosmetics, washes, artificial teeth, false hair, Spanish wood, iron stays, hoops, high-heeled shoes, bolstered hips, shall incur the penalty of the law in force against witchcraft and like, and that marriage upon conviction shall stand null and void." The speaker did not indicate that this Act had ever been revoked.

# IN PARLIAMENT

**BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS**

PARLIAMENT reassembled after the summer recess on October 19.

### **Summer Time, 1955**

MAJOR G. LLOYD GEORGE told MR. E. WAKEFIELD in a written answer on October 21 that Summer Time 1955 would be from April 17 to October 2.

### **Linstead Report**

MR. IAIN MACLEOD (Minister of Health) told MR. K. ROBINSON in a written answer on October 25 that he did not feel that publication of the full report of the Linstead Committee on Hospital Pharmaceutical Services was called for.

### **Registration of Opticians**

MISS P. HORNSBY-SMITH (Parliamentary Secretary, Ministry of Health) told MR. B. JANNER in a written reply on October 21 that the Minister of Health could at present make no statement on the implementation of the recommendations of the Crook committee on the registration of Ophthalmic opticians.

### **Fluoridation of Water**

MR. IAIN MACLEOD (Minister of Health) told MR. N. N. DODDS in a written answer on October 20 that investigations were taking place to determine the amount of fluoride suitable for addition to water supplies in Britain. Arrangements were also being made for the supply of fluoride and the development of suitable machinery. The authorities of Anglesey, Darlington, Watford and Kilmarnock had agreed to co-operate in local studies.

### **Prices of Drugs**

MR. IAIN MACLEOD (Minister of Health) told MR. BLENKINSOP in a written reply on October 25 that cost investigations of the secondary manufacture and compounding of non-proprietary preparations had not so far suggested that the general level of prices in that field was excessive, but the matter was still under discussion. The investigations into the cost of basic drugs were proceeding.

### **Boracic Powders**

MR. N. N. DODDS asked the Minister of Health what conclusions had been reached from the investigations made by his department into the use of "boracic" in talcum and baby powders. MR. IAIN MACLEOD (Minister of Health) in a written answer on October 20 said that he thought that ample publicity had already been given, and he did not consider that any further action by him was called for at present. He would keep the position in review.

### **Protection Against Radioactivity**

MAJOR G. LLOYD GEORGE (Home Secretary) told MR. M. EDELMAN in a written answer on October 21 that information about methods of protection against radioactivity and the first aid treatment of persons who suffered from radiation sickness was given in the

Home Office Civil Defence pamphlet on atomic warfare.

### **Deaths from Cancer**

MR. IAIN MACLEOD (Minister of Health) told MR. N. N. DODDS in a written answer on October 21 that the increase in deaths from all forms of cancer in 1953 over 1952 amounted to only 282 (87,924 in 1953 compared with 87,642 in 1952). Advances in general scientific knowledge had attributed to most of the new processes introduced to control cancer, such as developments in irradiation technique; use of radioactive isotopes and the introduction of hormones and chemotherapy in treatment.

### **Common Cold Vaccine**

MR. J. R. BEVINS (Parliamentary Secretary, Ministry of Works, representing the Lord President of the Council) told MR. N. N. DODDS in a written answer on October 22 that investigations by Medical Research Council workers at the Harvard Hospital, Salisbury, had resulted in the successful cultivation in 1953 of a common cold virus in tissue culture (see *C. & D.*, September 19, 1953, p. 281). It had not been possible to repeat cultivation on a large scale and it was not at present practicable to consider the development of vaccines.

### **Food and Drugs Bill**

DR. C. HILL (Parliamentary Secretary, Ministry of Food) announced, when the Food and Drugs Bill went into committee in the House of Commons on October 26, that it was the Government's intention to introduce a consolidation bill at the earliest possible moment.

SIR LESLIE PLUMMER moved an amendment to delete the defence, where a charge arose from the sale of injurious foods and adulterated drugs, provided for those whose business it was to publish advertisements. The section, he said, was a defence for an unscrupulous advertising agent deliberately to further the sale of articles that were injurious.

MR. D. HEATHCOAT AMORY (Minister of Food and Agriculture) resisted the amendment and said it seemed to throw unreasonable onus on the advertisers. The onus should lie on the manufacturer. He could not see how the advertiser could satisfy himself in practice that nothing had been done to the food which was going to be injurious to health.

The amendment was defeated.

SIR HUGH LINSTEAD, referring to a proposal that in the case of dangerous drugs the antidote should be printed on the label, said the proposal had been made from time to time, but the Poisons Board had decided against it on the ground that in many cases the treatment for poisoning was not an antidote but a course of treatment.

MR. JOHN EDEN said of the 700 chemicals used for colouring, preserving and sweetening food, quite a number had been found in the laboratories to be injurious to animals. One particular

insecticide, DDT, was used extensively in homes and hospitals and other places where food was stored and was known to be very toxic. Parliament had a great responsibility if it allowed those substances to be handled by people who might not know of the danger in doing so. There was a definite possibility that some of those harmful chemicals might be partly responsible for the increase in certain diseases such as poliomyelitis and cancer.

DR. BARNET STROSS intervened to say that poliomyelitis and cancer existed long before the substance mentioned was ever thought of.

MR. EDEN said it would be better to carry out an investigation into those drugs used in foodstuffs to find out whether they were safe for human consumption before they were used.

MR. R. FORT said as one closely connected with the chemical industry for many years, he protested against the unsubstantiated remarks of Mr. Eden who had allowed his imagination to run riot. The chemical industry was very much concerned in making sure that nothing which was added to food was injurious to health. He welcomed the Bill because it contributed to the end which all reputable manufacturers of chemicals wished to see—better food.

MR. PITMAN moved an amendment to make it a defence for a retailer, if prosecuted, to show that the substance in question was sold under a trade mark in response to a demand by the purchaser, with the proviso that the product was not inferior either in substance or quality to the product or medicine normally sold under that name.

SIR IAN FRASER, seconding the amendment, said he was a director of companies manufacturing and distributing articles sold subject to registered trade marks. Established trade marks had a value, he said, not only to their owners, but to people who had faith in them. Reasonable use by their owners or proprietors should be respected by the law and not be subject to attacks.

The amendment was negatived.

DR. E. SUMMERSKILL moved two amendments to strengthen the power of the Minister in obtaining information about ingredients added to natural foods. So many foods had additions made to them, she said, that our whole approach in that field was exploratory. No one could be dogmatic about the effects of the new drugs and, indeed, about the effects of some of the foods, which had been altered by someone who believed that by making some additions he might be improving the food standard. Certain drugs which had been used during the last few years and lauded by the medical profession and subsequently by the public as something very wonderful, had been discovered to be injurious in so far as they sometimes even affected the personality.

The amendments were accepted by the Minister.

# THE LATE MR. HOWARD BAYLES

## "Dean of English historians of pharmacy"

WE regret to announce the death in the Nursing Home, Thorpe Road, Norwich, on October 24, of Mr. Howard Bayles, M.P.S., a former member of the editorial staff of THE CHEMIST AND DRUGGIST. Mr. Bayles was eighty-two. He contributed articles to the C. & D., chiefly on antiquarian topics, as early as 1904. He joined the staff of the paper in August 1917, retiring on December 31, 1937.

He began his apprenticeship in pharmacy in 1887 and obtained a good London and provincial retail experience. For a time he served with Messrs. Jolley, of Curzon Street, the partners being Messrs. E. Northway Butt and J. W. Bowen. Then followed experience with Messrs. Corbyn & Co. of New Bond Street. Subsequently for a period of five years Mr. Bayles was in partnership with Mr. Arthur Pain of Ipswich. After that he managed a retail business for Mr. Sidney Long of Stoke Newington, N.16. During the time of Mr. Bayles' service with Mr. Long he was granted unusual facilities for the practice of journalism and during those years he contributed to London and provincial newspapers. For about two years Mr. Bayles was a regular contributor on musical subjects—music and old books being his special metier—to *Vanity Fair*.

The Editor, C. & D., writes: Although his name has appeared under the title of his articles in this paper, Howard Bayles was less well known to the majority of pharmacists than he should have been. In a country where too little interest has for too long been taken in the history of the craft, he did not come much into the limelight, but he was held in high esteem by the most eminent pharmaceutical historians in Europe and the United States. Among the few in Britain whose efforts to arouse enthusiasm for the subject are today meeting with some success, he had a place of honour. His innumerable writings on aspects of pharmaceutical history, written under a number of pen names, are alike in carrying the stamp of first-hand study, accurate perspective, meticulous verification of detail and, not least, polished literary presentation. When I joined the editorial staff of the C. & D. he was its Assistant Editor. The relations between clumsy junior and master of style must at first have been as tiresome to him as they were often chastening to me. Yet he was invariably considerate and helpful and over the years our relations ripened into a firm friendship based on the fullest respect for the other's point of view. From his retirement in 1937

until a few months ago, Mr. Bayles was our weekly contributor Xrayser. He was an editor's ideal correspondent. His three paragraphs each week came in with unfailing punctuality, clearly typed and corrected after an obvious re-reading, and they rarely required a word cut or added to fit the allotted space. When that happened, he would often send, quite unnecessarily, a note of apology. Xrayser's access to little-known information on any given subject was something to marvel at. His memory, or his filing system, seemed as inexhaustable as the widow's cruse. Mr. Bayles was always ready to take on an extra commission. Apart from that, one could always be sure that he was at work on a subject of his own choice, examining and sifting the material, to send in the result only after it satisfied his own high standards. His loss is most keenly felt at 28 Essex Street. In the wider field, it would be fair to claim that his work will live on and fructify in the activities of the History of Pharmacy Committee of the Pharmaceutical Society.

Mr. Leslie G. Matthews (chairman, Pharmaceutical Society's History of Pharmacy Committee) writes: Howard Bayles described himself as a journalist—that was his natural bent. To a wide circle he was known and liked for his gentleness of manner, his courtesy and a modesty which belied his profound knowledge of both the practice and the history of pharmacy in this country and beyond. His was the knowledge of sources of information and the readiness to make what he had available that gained for him an international reputation, though he himself was the last to admit it. In the second edition of Kremer and Urdang's "History of Pharmacy," published in

1940, Professor George Urdang had the invaluable help of Bayles whom he rightly described as "the dean of the English historians of pharmacy," who had checked every statement, verified the data and made most valuable suggestions. He was a founder-member of the International Academy of the History of Pharmacy, 1952, though it is doubtful if he ever sported the blue ribbon and badge denoting Academy membership. Keen to encourage others' work in his special field, he could suggest where the extra piece of information should be sought. As a one-time partner in an Ipswich firm of chemists, he acquired some local reputation. In a letter to me this year in which he commented on his handwriting, he described himself as the "hibernating patient." He was an obvious choice as a member of the Society's History of Pharmacy Committee, set up in September 1952, and was held in esteem by his colleagues. To our great regret his health obliged his retirement from the Committee last December, but he continued his interest in its work and, when unable to accept an invitation to address an Evening Meeting, contributed perhaps his last major effort in journalism—a 3,000-word survey of eighteenth-century popular medical books, published recently in the Pharmaceutical Society's official journal. This he ended characteristically: "Students who follow the subject in its byways will find a few thoughts that have an air of originality, and many that have not." As an "X-rayser," he will be known far and wide to readers of THE CHEMIST AND DRUGGIST. His collected notes would in themselves repay study and would be worth reprinting. His graciousness gave winter a warmer zest.

## DEATHS

**CORDWELL.**—Recently, Mr. Walter Raleigh Cordwell, M.P.S., The Pharmacy, Castle Street, Eye, Suffolk. Mr. Cordwell qualified in 1906. He had been in business as a pharmaceutical chemist in Eye for forty years.

**CROMACK.**—At King's College Hospital, London, on October 16, Mr. Arthur Cromack, M.P.S., 48 Byron Road, North Wembley, Middlesex, aged sixty-three.

**CROWE.**—Recently, Mr. Walter Reginald Crowe, 10 Bentinck Close, Prince Albert Road, London, N.W.8, aged fifty-seven. Mr. Crowe was founder and governing director of Walter Crowe, Ltd.

**DRAKE.**—On October 15, Mr. Frank Drake, M.P.S., 7 Headingley Crescent, Leeds, 6. Mr. Drake qualified in 1921.

**HUGHES.**—At his home, Stanley House, Osborne Street, Rhos, nr. Wrexham, Denbighshire, on October 19, Mr. Thomas John Hughes, M.P.S., aged forty-nine. Mr. Hughes carried on a business as a pharmaceutical chemist in Pen-Y-Stryt, Rhos. He was

a member of Rhos parish council and a former chairman of the council.

**KENT.**—Suddenly, at Karachi, on September 28, Mr. Benjamin Kent, M.P.S., aged sixty-five. Mr. Kent was a native of Boston, Lincs, where he served his apprenticeship with Grimble & Kent, Ltd. Following service with the Royal Army Medical Corps in Karachi during the 1914-18 war he joined there the firm of Bliss & Co., wholesale and retail chemists, of which company he was senior partner at the time of his death. Mr. Kent was a prominent freemason.

**MARSHALL.**—At 3 Victoria Terrace, Alexandra Parade, Dunoon, on October 17, Mr. Charles Marshall, M.P.S. Mr. Marshall qualified in 1907.

**NAPIER.**—On October 24, Mrs. Margaret Robertson Napier, wife of Mr. Duncan Scott Napier, M.P.S., 17 Bristo Place, Edinburgh, 1.

**SHOOTER.**—At Hill Rise, Milner Road, Bridlington, on October 19, Mr. Thomas Shooter, M.P.S., formerly of 141 Beeston Road, Leeds, 11. Mr. Shooter qualified in 1908. He commenced as an apprentice with Mr. John



Calverley, 141 Beeston Road, Leeds, qualifying in 1908, and joining Mr. Calverley in the business as Calverley & Shooter, from which he retired on June 30. He served abroad during the 1914-18 war and was also quartermaster at Becketts Park Hospital, Leeds. Mr. Shooter was a former chairman of the Leeds Branch of the Pharmaceutical Society, and a former chairman of the Leeds Branch of the National Pharmaceutical Union. For many years he served on the Leeds Pharmaceutical Committee and was secretary to the time of his retirement. He was a member of Leeds Executive Council. He completed his fiftieth Christmas day rota duty at Christmas, 1953. Mr. Shooter was a founder member and a director of P.D.S. (Leeds), Ltd., wholesale chemists. He was a member of the Defence Lodge and well known in the masonic field. His main hobby was golf and he was a member of the South Leeds golf club. He took a keen interest in football and was an enthusiastic supporter of the Leeds United Football Club.

## MARRIAGES

**BLACKHAM—SMITH.** — At the Congregational Church, Paulerspury, Northants, recently, John Raymond Blackham, M.P.S., Beulah House, High Street, Highley, nr. Kidderminster, Worcs, to Elizabeth Ada Smith, M.P.S., The Manse, Paulerspury.

## Golden Wedding

**ROPER—CLARK.** — At St. John's Church, Cheltenham, on September 21, 1904, Herbert Carr Roper, M.P.S., to Helen Kathleen Clark. Present address: 4 Eslington Terrace, Jesmond, Newcastle-upon-Tyne, 2.

## PERSONALITIES

**MR. P. M. ROBINSON** (managing director, Robinson & Sons, Ltd., Chesterfield), has ceased to be actively engaged in the management of the business and is devoting considerable time to research into the company's history. He plans to go into the subject fully and extract all the information available from the old business records which go back many years.

**MR. J. J. THOMAS**, M.P.S., mayor of Sandwich, Kent, who was present at the ceremonial launching of the new fermentation plant of Pfizer, Ltd., (see p. 443), was born in Coventry, Warwickshire, where he was educated at the King Henry VIII School, and then served an apprenticeship under Mr. G.



R. Williamson, M.P.S. He qualified as a chemist and druggist in 1922, and gained his F.S.M.C. in 1923. From 1924-32 he was the owner of a pharmacy in Kenilworth, and was a mem-

ber of the Warwickshire Pharmaceutical Committee and National Health Insurance Committee. He next acquired Turner's Pharmacy, Cambridge, where he remained until 1936. During 1940-44 he was in business as a pharmacist at Wheathampstead, Herts, and in 1945 he moved to Sandwich, where he bought two pharmacies in King Street. He was elected to the town council in 1946, and in 1950 became its 726th mayor. Mr. Thomas, who is a J.P., was for two years, during 1950-52, chairman of the bench, and was the last mayor to sit at Sandwich Quarter Sessions, now abolished. During 1948-49 he was chairman of the East Kent Branch of the Pharmaceutical Society and secretary of the East Kent Branch of the National Pharmaceutical Union. He sold his pharmacies in 1949. In 1952 Mr. Thomas was elected to the Kent county council, and in that year again became mayor, and speaker of the Ancient Confederation of the Cinque Ports. He is president of the local Chamber of Commerce, Community Association, and many other local sporting and charity organisations and controller-designate of the local Civil Defence Corps. He is a member of the Cinque Ports Lodge of Freemasons, and founder member of the Rutupiae Lodge, of which he was worshipful master in 1951-52.

**MR. F. A. BATES, M.P.S.**, was recently appointed provincial grand deputy director of ceremonies in the Provincial Grand Lodge of Nottinghamshire Freemasons.

## COMPANY NEWS

*Previous year's figures in parentheses*

**SOLIDOL CHEMICAL, LTD., and ASHE LABORATORIES, LTD.** — The directors of Solidol Chemical, Ltd., propose the acquisition of the capital of Ashe Laboratories, Ltd., and to change the parent company's name to Ashe Chemical, Ltd.

**WILLOWS FRANCIS PHARMACEUTICAL PRODUCTS, LTD.** — Mr. C. R. Hinds Howell (chairman) and Major M. N. T. Gubbins have resigned from the board. Mr. A. W. Cornforth has been elected chairman of the company.

**SAVORY & MOORE, LTD.** — Group trading profit for year ended March 31 was £170,393 (£204,656) and net profit, £38,444 (£63,380) after tax and minority interests, £80,338 (£93,106). Ordinary dividend proposed, 10 per cent. (same).

**ABBOTT LABORATORIES, LTD.** — Mr. G. C. Dufour has been appointed chairman of the company and Mr. M. N. Scorgie, B.Sc. (Econ.), M.P.S., Barrister-at-law, has been appointed managing director. The board now consists of Messrs. G. C. Dufour and F. C. Howard, Sir Nevile Bland, K.C.M.G., K.C.V.O., and Mr. M. N. Scorgie.

**THOMAS HILL ENGINEERING CO. (HULL), LTD.** — Mr. G. F. Hill has relinquished his position as managing director of the company but continues as chairman of the board. Mr. T. P. Hill succeeds him as managing director. Mr. J. G. Brown has ceased

to be a director of the company and of Wincolmlee Foundry, Ltd.

**LAPORTE INDUSTRIES, LTD.** — The directors announce that they have received from the members of the Fullers' Earth Union, Ltd., acceptances totalling over 90 per cent. of each class of capital of that company and that the offer is now unconditional. The directors also announce that the following have been elected to the board of Laporte Industries, Ltd.: —Messrs. J. L. Harvey, M.B.E., J. Jones, M.B.E., and W. T. Raikes, D.S.O., M.C.

**IMPERIAL CHEMICAL INDUSTRIES, LTD.** — A new group, to be known as group F (fibres), is being created within Imperial Chemical Industries, Ltd., on February 1, 1955. Mr. P. C. Allen has been appointed to be the director in charge of the group and as the fibres director he will be responsible to the I.C.I. board for the Terylene council. Mr. G. F. Whitby has been appointed a joint managing director of the Terylene council. Dr. F. J. Siddle was appointed a managing director of the council on August 1.

## New Companies

**P.C.** — Private Company; **R.O.** — Registered Office  
**R. G. THAKE, LTD. (P.C.)** — Capital £2,000. To carry on the business of chemists, druggists, etc. Directors: Robert G. Thake, M.P.S., Ruth M. Thake and Joy R. Thake. R.O.: 26 Craven Street, London, W.C.2.

**W. ROUSE, LTD. (P.C.)** — Capital £7,500. To acquire the business of a chemist and druggist now carried on by Wilfred Rouse, M.P.S., at 34 High Street, Aylesbury, Bucks. Directors: Wilfred Rouse and Ethel Rouse.

**DIB LANE CHEMISTS & OPTICIANS, LTD. (P.C.)** — Capital £1,000. To carry on the business of wholesale or retail chemists, opticians, etc. Directors: Harry Taylor, Patricia M. Harris, M.P.S., and Frederick W. Harris. R.O.: 120 Dib Lane, Leeds, 8.

**RUMSEY (CHEMIST), EAST DULWICH, LTD. (P.C.)** — Capital £2,700. To carry on the business of chemists, druggists and herbalists, etc. Directors: James C. H. Rumsey, M.P.S., Wilfrid Carter, M.P.S., and George R. Hole. R.O.: 20 George Street, Croydon, Surrey.

## BUSINESS CHANGES

**C. J. HEWLETT & SON, LTD.**, are removing their offices and works to larger premises at King George's Avenue, Watford (telephone: Watford 7761), on November 1.

**BAYER PRODUCTS, LTD., and WINTHROP PRODUCTS, LTD.**, are removing to larger administrative headquarters at Neville House, Eden Street, Kingston-on-Thames, Surrey (telephone: Kingston 7733) on October 30. From that date only a small branch office remains at their former address at Africa House, Kingsway, London, W.C.2, and in consequence of the move the offices will not be open on Saturday morning, October 30. It is pointed out that neither company has any connection with Farbenfabriken Bayer of Germany.

## STUDENTS' VACATION WORK

### Industrial and education representatives confer

A CONFERENCE on vacation training for students of chemistry held at the Imperial College of Science and Technology, London, on October 20 under the chairmanship of Professor R. P. Linstead (professor of chemistry at the College), was attended by representatives of many companies including several from the pharmaceutical industry.

THE CHAIRMAN said that the college arranged vacation work for about sixty students in chemistry a year, about 25 per cent. going abroad for the work. It was also pointed out that the college acted as a clearing house for students from other colleges in Britain and abroad and was responsible for conceiving the international scheme.

More places are required in industry here to accommodate home and overseas students in chemistry. Mr. J. Newby (superintendent of vacation studies at the college) pointed out that many students had to get work during the long vacation in order to keep themselves and a large proportion of them had to take jobs which were of no use in furthering their studies.

Terms of reference suggested for the speakers at the conference included:

(1) An examination of the experience of industry of the scheme during the past ten years of operation.

(2) What is the best stage of student life for vacation work in (a) the United Kingdom and (b) abroad, bearing in mind compulsory National Service?

(3) The organisation of programmes for the training of chemists during the vacations.

(4) Rates of payment and other conditions.

DR. B. W. BRADFORD (Imperial Chemical Industries, Ltd.), said that the first essential for success was that the student should be made to feel that he was doing a useful job. The student no doubt gained some practical experience during his short stay but it was the broader experience of how the industrial organisation worked that was a more valuable reward. Dr. Bradford said that his company found it an advantage to draw up a list of problems suitable for working on by the student and the list was sent out beforehand so that the student might make a choice before coming. The company arranged for the students to see other parts of the organisation and an opportunity was given for them to talk to the senior members in charge of each department. Dr. Bradford said that he found it more difficult to place a foreign student but that view was not underlined by subsequent speakers.

DR. J. A. TEBBOTH, speaking on behalf of the research and development department of the British Oxygen Co., Ltd., said that over the past seven years 108 students from nine colleges had worked there for about seven weeks each. Their average age was twenty years and the payment was £4 for a five-day week, plus 10s. a week travelling expenses, and £1 for lodgings. The department generally gave the student a single problem and sug-

gested a programme of work. He thought it unethical to use a student as a stop-gap during a period which coincided with staff holidays. The least successful of the students were those who came straight from school. Those who had completed National Service were the most mature.

Two students gave their impressions of vacation work at home and abroad. They said that the money they earned was adequate. After the course they

had to submit a report on the work done.

In the discussion which followed, DR. H. J. BARBER (May & Baker, Ltd.) said that he could see nothing discreditable in letting the student do routine work alongside members of the staff. The company's experience with foreign students was a happy one and they found that the students usually mixed well in all activities.

MR. C. E. RHODES (Reckitt & Colman, Ltd.) said that his company found the first-year student the best for routine analysis and the older student for development work.

## PEPPERMINT OIL DEAL

### Action by essential oil merchant succeeds

MR. Justice Roxburgh, in the Queen's Bench division on October 22, heard argument on a point of law raised by the defence in the action brought by Mr. Albert George Hersom, a dealer in essential oils, Richmond Road, Kingston-upon-Thames, against Mr. Sydney Saul Bennett, Granville Court, Coldharbour Lane, Brixton, trading as S. Bennett & Son, bottle and carton merchants, claiming the return of £824 paid to defendant for a consideration which had failed. Judgment on the facts was given on May 26 (see *C. & D.*, June 5, p. 571). His lordship now said that twelve cases of peppermint oil were stolen by a person unknown on or about September 18, 1951, and plaintiff who had contracted to buy the oil paid the price which was £824 to the defendant who obtained delivery of the goods. Plaintiff then sued the defendant to recover his money on the footing of a total failure of consideration. Defendant was prosecuted for receiving stolen goods and was acquitted. His defence to the present action alleged in substance that he contracted as agent for the vendor, whose name was not disclosed at the time of the contract, and not as principal.

His lordship said that he had already held that plaintiff did contract with the defendant on that footing and if the defence that the vendor was one Williams had been made good the action would have failed. But his lordship held that the principal was not Williams and that the defendant's story of his business relationship with Williams was false from start to finish. On the other hand he could not hold as a fact that the defendant was himself the principal though he might have been. More probably the thief was the principal though he might have been the purchaser from the thief. Defendant said that by the Common Law of England he could now turn round and say "Well, if I have lied and if Williams was not my principal the plaintiff has still not proved that I have no principal and he cannot make me disclose his name so I, or the principal, will keep plaintiff's money, though, if plaintiff could find the principal, he could get his money back from him and if the principal never existed he could get his money back from me, the defendant."

His lordship said that he was not surprised to learn that counsel had been unable to find any decision or

even dictum to this effect. It might be that there was no right to obtain the name of the principal in order that an action might be brought but that was irrelevant in this case. Defendant did disclose the name of the alleged principal. Once he had done that he had, in his lordship's judgment, made a representation to the plaintiff that his case at the trial would be that Williams was the principal and plaintiff believed that representation. If defendant had said that his principal was someone else plaintiff would have prepared his case differently. There was no question of defendant seeking at the trial to substitute some other person for Williams. He swore that Williams was the principal and his lordship decided that his evidence was false. It seemed to his lordship that the fundamental principles of justice required that the defendant, who had given false evidence that his principal was "X," should not be heard to say through his counsel in argument that his principal might have been somebody else, and he must therefore be treated as having no principal, or in other words as being himself the principal. In his lordship's judgment the action succeeded and plaintiff must have judgment for £824, with costs.

His lordship granted a stay of execution pending an appeal on condition that the money was paid into court within fourteen days and notice of appeal was given within twenty-one days. There would then be a stay until the result of the appeal.

## INQUEST

**Disinfectant Mistaken for Milk.** — United Birmingham Hospitals are seriously considering the routine use of a new disinfectant to replace a dangerous one that a woman patient drank in mistake for milk. That was stated at an inquest at Birmingham recently on Mrs. Alice Smith, St. Andrew's Road, Small Heath, Birmingham, whose death was hastened by taking a carbolic disinfectant. A student nurse at the Queen Elizabeth Hospital told the coroner that a mug, containing a solution of phenol, was placed on a locker at the side of Mrs. Smith's bed. Later a cup of milk was placed on the same locker. Subsequently it was found that the phenol was missing and the patient complained about drinking something bitter. A verdict of "Accidental death" was recorded.

## TRADE NOTES AND NEW PRODUCTS

**Vitamin and Mineral Capsules.** — Vitafort vitamin and mineral capsules containing vitamins B<sub>6</sub> and B<sub>12</sub> are being distributed by W. B. Cartwright, Ltd., Rawdon, Leeds.

**Dosage Range.** — The dosage of the product Nupasal - 213 marketed by Smith & Nephew, Ltd., Welwyn Garden City, Herts, is 1 to 1·2 gm. daily and not as previously stated.

**Aerosol-lather Shave.** — Palmolive Rapid-Shave aerosol-lather preparation is introduced in good time for the sales the Christmas season is likely to bring. The makers are Colgate-Palmolive, Ltd., 145 Charing Cross Road, London, W.C.2.

**Single Shampoo Sachet.** — A new Drene single-shampoo sachet is being heavily advertised in women's magazines and national newspapers. It is available in attractive counter display cartons. The manufacturers are Thomas Hedley & Co., Ltd., Newcastle-on-Tyne.

**Deodorant and Bath Tablet.** — Meriton Packers, Ltd., 300 Kingston Road, London, S.W.20, offer in their product Deoba "the only combined deodorant and bath perfume tablet in the world." Deoba is issued in a box of six tablets. The product is to be nationally advertised.

**Christmas Pack.** — D. & W. Gibbs, Ltd., Hesketh House, Portman Square, London, W.1, are issuing their Sunsilk



one-application shampoo with a Spa ladies' nylon hairbrush in the special Christmas pack, illustrated.

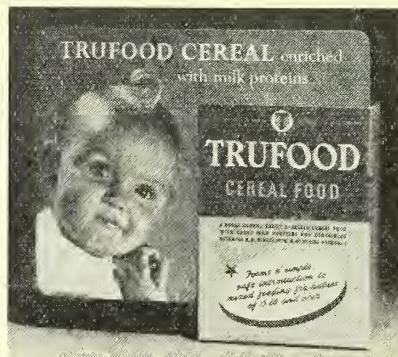
**Correction to Advertisement.** — In the advertisement of Arthur H. Cox & Co., Ltd., Brighton, in the C. & D., October 23, p. 8, the following correction should be noted: The price quoted for the company's codeine and creosote pastilles was exclusive of purchase tax and not as stated.

**Dispensing Packs.** — Radiol Chemicals, Ltd., 78 Upper Richmond Road, London, S.W.15, announce that tax-free dispensing packs of their Radian preparations are now available as follows:—Radian B (1-lb. and 5-lb. bottles); Radian a (1-lb. and 2-lb. bottles); Radian massage cream (1-lb. and 2-lb. cartons).

**Quantity Discounts.** — Members of the Medical and Surgical Plaster Makers' Conference are, from November 1, allowing the following quantity

discounts on medical and surgical plasters: 3½ per cent. on a £3 parcel of mixed plasters; 5 per cent. on a £6 parcel of mixed plasters; the parcels to be taken in one delivery.

**Display Crowner.** — A new display crowner is being made available for



Trufood cereal food by the manufacturers, Trufood, Ltd., Green Bank, London, E.1. The crowner, here illustrated, is obtainable through the company's representatives or direct.

**Discontinued Lines.** — Genatosan, Ltd., Loughborough, Leics, state that the following products have been discontinued:—Cupragren cream (warehouse stocks of the 2-oz. size are sold out, stocks of the 1-lb. dispensing pack are still available); Genozo mouthwash tablets (the 500- and 1,000-bulk packs are sold out, stocks of the 50-pack are still available); and Menthol and wintergreen cream (stocks of the 1-lb. size are sold out, the 1-oz. tube is still being marketed).

**Oestrogen of High Activity.** — G. D. Searle & Co., Ltd., 17 Manchester Street, London, W.1, announce that their new preparation Vallestril brand of methallenoestril will be released for sale on November 1. Vallestril is a single crystalline chemical substance of high oestrogenic activity and with a low incidence of untoward side reactions. It is indicated for menstrual disorders, suppression of ovulation and of lactation. The product is supplied in tablets of 3 mgm. in bottles of 100 and 1,000. A circular on the preparation is being sent to members of the medical profession in Great Britain on November 4.

**Peptic Ulcer Therapy.** — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, are introducing Lergine compound as a companion product to their recently issued Lergine brand tricyclamol chloride. The compound preparation contains 50 mgm. of tricyclamol chloride and 16 mgm. (gr. ¼) phenobarbitone in each sugar-coated tablet. It is indicated, as is Lergine itself, for the reduction of gastrointestinal hypermotility and spasms in the treatment of peptic ulcer and certain other disturbances of the alimentary tract. The concomitant effect of the phenobarbitone provides the central nervous sedation often necessary for the successful management of those

conditions. Lergine compound is available in bottles of 100 and 500.

**Bonus Offers.** — BURROUGHS WELLCOME & CO. announce that from November 1 until January 31, 1955, all orders for 1 or more doz. of Menthofax and of Wellcome brand toilet lanolin will be supplied thirteen to the doz. in the United Kingdom only.—CARTER BROS., Glen Laboratories, Shipley, Yorks, present a bonus parcel of thirty-nine tubes of Infurno earning 82·5 per cent. gross profit on cost.—CLINICAL PRODUCTS, LTD., Richmond, Surrey, are offering a bonus of twenty-four 1-oz. tubes of Arthripax cream charged as twenty. An extra discount of 10 per cent. is given on bonus parcels if they are included in orders for other of the company's preparations (including dispensing packings) to the net value of £5 and over.

**Redesigned Bottle and Label.** — Richard Hudnut, Ltd., have redesigned their 2-oz. dandruff treatment bottle and label. The new flask-shaped bottle has a white cap and features a green



and white label. It is being packed in an attractive green ½-doz. display outer, featuring a head and shoulders photograph.

**Sustained Release Capsules.** — Menley & James, Ltd., Coldharbour Lane, London, S.E.5, are introducing Spansule capsules, "an entirely new and unique way of presenting drugs orally." It is claimed that they enable a uniform and sustained therapeutic effect to be maintained over a period of ten to twelve hours with a single dose. In Spansule capsules, the drug is distributed among many tiny pellets with varying disintegration times. The first drug to be made available in the new form is phenobarbitone. The phenobarbitone Spansule capsules are indicated in conditions requiring continuous sedation; in gastrointestinal, cardiovascular and central nervous disorders; in endocrine disturbances such as the menopause, and in other conditions complicated by excitement, anxiety, restlessness or irritability. The capsules, in containers of thirty, are available in two strengths, gr. 1 and gr. 1½.

**New Shape for Sublingual Tablet.** — Ciba Laboratories, Ltd., Horsham, Sussex, are introducing their hormone Linguelets in a new shape as illustrated. The new Linguelets have the advantage that they fit comfortably under the

that helps to keep you slim" (by virtue of its low sugar content and content of methyl cellulose).

**Tax-free.** — Pfizer, Ltd., Folkestone, Kent, point out that no Terramycin products are subject to purchase tax.



The new-shaped Linguelets scored in four different ways for ease of administering small doses.

tongue or between the cheek and gum. The patient is thus much less conscious of their presence. The smaller size and special shape reduce salivation and ensure more effective absorption. In addition, the Linguelets are now readily identified by colour, while transverse score marks or bars are used to distinguish the strengths. Chemists' existing stocks are being replaced. Orders for the new Linguelets should be placed either direct with the company or through one's usual wholesaler, but the entire stock of the old type Linguelets should be returned direct to Messrs. Ciba by November 15 (postage refunded). A leaflet is being sent to pharmacists informing them of the change in the tablets and enclosing a returns form.

**Display-piece.** — Dalmas, Ltd., Junior Street, Leicester, manufacturers of Pearl



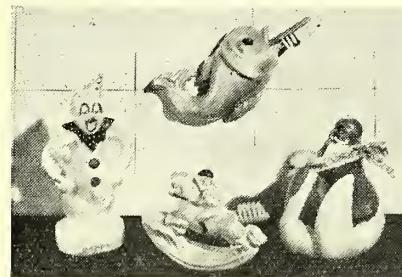
denture cleanser, have made available the display piece illustrated. Printed in full colour and constructed of substantial board it enables chemists to display the cleanser to full advantage. The display piece is forwarded with each order received for the cleanser.

**"Slimming" Marmalade.** — Slimaid Products, Ltd., 36 London Street, Southport, Lancs, are the makers of Slimso marmalade, "the marmalade

Agent for American Oils. — P. T. Petley & Co., Ltd., 59 Old Bailey, London, E.C.4, have been appointed the sole U.K. agent and importer for the essential oils supplied by Fritzsche Brothers Inc., 76 Ninth Avenue, New York 11, N.Y., U.S.A.

**Point-of-sale Displays.** — Rexall Drug Co., Ltd., Morley Street, Loughborough, Leics, announce an increasing demand from chemists for their multi-vitamin capsules Plenamins, which are now being nationally distributed and advertised. Point-of-sale aids available from Messrs. Rexall include a photographic window display unit, a full colour counter card and a three-dimensional counter display unit featuring a Plenamins pack. Inquiries for the display material should be addressed to the company.

**Children's Bathroom Novelties.** — The Happy-the-Clown, Jockey-Rocker and Dolphin toothbrush holders for children put out by Combex, Ltd., Ganton House, Ganton Street, London, W.1 (C. & D., October 2, p. 341) are hand decorated in indelible colours.



Bristles on the brushes are made of soft nylon. The holders are hygienically and individually packed in sealed transparent bags. The swan novelty soapdish, another bathroom novelty, should prove an excellent seller at Christmas. It is made in pearl cellulose acetate in pinks, blues, greens, yellows or white. The soap, in the

shape of Santa Claus, is red, and slightly perfumed. A decorative "Merry Christmas" ribbon secures the soap to the dish. All the novelties are obtainable from the usual wholesalers.

#### Medical Photographers' Showroom Visit.

More than 100 delegates to the fifth annual conference of the medical group, Institute of British Photographers, visited the showrooms of Philips Electrical, Ltd., Shaftesbury Avenue, London, recently. They were received by the managing director and departmental heads and saw displays of the company's products, with the emphasis on those of interest to medical photographers. An attraction of the evening was the opportunity given to guests to test their skill at "beating the flash," using a synchronised shutter and flash bulbs. Dark-room equipment, enlarger lamps, etc., were given prominence. In a new x-ray centre the latest Philips diagnostic and therapeutic apparatus was on view, including a complete dental unit, a chest-screening unit, radiotherapy apparatus, port-



able x-ray and short-wave equipment, etc. During the evening films were shown, including one on the Philips electron microscope.



**Royal Visitor to Exhibition Vessel:** The motor yacht "Thurgar"—exhibition vessel owned by Thurgar Boats, Ltd., moulders of industrial plastics, Wellingborough—recently started an overseas selling cruise by visiting Scandinavian ports. In Sweden it took part in the international St. Erick's Fair at Stockholm. The yacht was moored near the royal palace and among the visitors to the exhibition of plastic and other goods on board was Count Bernadotte, second son of the King of Sweden, shown signing the visitors' book. With him are Mr. H. D. Thurgar and Mrs. Thurgar.

## SCOTTISH DEPARTMENT EXECUTIVE

### Celebration of formal recognition

TO celebrate the formal recognition of the Scottish Department in the Society's constitution, a dinner was held in Edinburgh on October 19. There was an attendance of ninety-seven, and all but two of the Scottish Branches of the Society were represented. The guests, who were received by Mr. S. Hughan (chairman of the Executive) and Mrs. Hughan, Mr. E. A. Brocklehurst (president of the Pharmaceutical Society) and Mrs. Brocklehurst, included Professor D. M. Dunlop (professor of therapeutics, Edinburgh University), Sir John Mackay Thomson, C.B., Dr. J. G. M. Hamilton (chairman of Scottish Committee, British Medical Association), Dr. E. R. C. Walker (Scottish secretary, British Medical Association), Principal H. B. Nisbet (Heriot-Watt College), Dr. A. F. Wilkie Millar (chairman, Scottish Medical Practices Committee) and Mr. J. Hogarth (assistant secretary, Department of Health for Scotland). Among those present was Mr. G. F. Merson, who qualified as a chemist and druggist in 1888 and passed the Pharmaceutical Chemist examination in 1892.

#### A Part of the Constitution

The toast of "The Scottish Department" was proposed by MR. BROCKLEHURST who said that the Scottish Department had now become part of the constitution of the Society with all the authority of a Royal Charter. Speaking as "an English president of our British Society," he paid tribute to the work carried on so successfully in Scotland for more than 100 years, and still continuing. He referred especially to the last three resident secretaries, all of whom he had known—Mr. John Rutherford Hill ("He symbolised official pharmacy to me"), Drs. Joseph Tait and David McCall.

Replying to the toast, MR. HUGHAN said that he was privileged to be in the chair on so important an occasion in Scottish pharmaceutical history. He spoke of the great satisfaction with which the Supplemental Royal Charter had been received in Scotland, but he assured the president that the loyalty of the Scottish Department to the Society was so great that even so important an event as the dinner celebrated could not increase it. He also referred to the tireless energy of so many prominent Scottish pharmacists who had done so much good work in the early days of the North British Branch.

MR. H. H. CAMPBELL (head of the pharmacy department, Heriot-Watt College), proposing the toast of "The University of Edinburgh and the Faculty of Medicine," expressed his satisfaction at the warm feelings already existing in the gathering towards the University and the Faculty of Medicine. He suggested that the institution of a degree in pharmacy might be a desirable future development in the history of the faculty.

Responding, PROFESSOR DUNLOP recalled the co-operation, over a hundred years ago, between Sir James

Young Simpson and John Duncan (one of the founder members of the Pharmaceutical Society—and its Scottish Department) in the early experiments with chloroform. It seemed singular that in the University of Edinburgh where that early co-operation between the medical and pharmaceutical professions took place, there was no department of pharmacy. Perhaps the time was not ripe at present, because since the war the faculty of medicine had been made responsible for the education of dentists, veterinary surgeons and nursing sister tutors, and a heavy strain had been put on the administration. However, some day it was to be hoped that there would be

a department of pharmacy in the University.

The toast of "The Guests" was proposed by the resident secretary (Dr. David McCall). He spoke specially of Sir John Mackay Thomson, formerly secretary of the Scottish Education Department, who was a grandson of John Mackay, the first secretary of the Society in Scotland.

SIR JOHN MACKAY THOMSON, replying to the toast, quoted from newspaper cuttings referring to his grandfather. In one of these John Mackay was reported as looking forward to the time when there would be a school of pharmacy in Scotland. Sir John said that his grandfather's dream had been more than fulfilled in that there were now four schools of pharmacy in Scotland, one of them affiliated to a University and granting a degree in pharmacy.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

#### Sunday, October 31

LONDON PHARMACY RAMBLERS. Meet at Hildenborough station, at 11.8 a.m., for ramble on the sandstone ridge of Kent. Train leaves Victoria Southern Region station at 9.56 a.m., Crystal Palace, 10.19 a.m., Bromley South, 10.33 a.m. Connection leaves London Bridge 9.33 a.m.

#### Monday, November 1

HULL CHEMISTS' ASSOCIATION, Young People's Institute, at 1.30 p.m. Luncheon club.

READING BRANCH, PHARMACEUTICAL SOCIETY, Great Western Hotel, Reading, at 7.45 p.m. "Open Forum."

#### Tuesday, November 2

BIRMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCH, Imperial Hotel, Birmingham, at 8 p.m. Mr. J. R. Archer (Parke, Davis & Co., Ltd.), on "Action and Uses of Diuretics."

GLASGOW PHARMACY CLUB, Reid's Tearoom, 34 Gordon Street, Glasgow, C.I, at 7.30 p.m. Whist drive.

S.E. LONDON CHEMISTS' ASSOCIATION and BRANCH, New Cross Inn, 323 New Cross Road, London, S.E.14, at 8 p.m. Mr. C. C. Green on "The Chemists Federation and Price Cutting."

#### Wednesday, November 3

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION and BRANCH, Preston Hotel, Birkenhead, at 8 p.m. Mr. H. W. Tomski on "Economics of Pharmacy."

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly House, Theatre Street, Norwich, at 7.30 p.m. Dr. Lester Smith (Glaxo Laboratories, Ltd.) on "The Isolation, Properties and Functions of Vitamin B<sub>12</sub>."

ROYAL INSTITUTE OF CHEMISTRY, Kingston Technical College, Fassett Road, at 6.30 for 7 p.m. Dr. K. G. A. Pankhurst on "The Physics and Chemistry of Detergents."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION and BRANCH, Berkeley rooms, Zeeta House, Putney, London, S.W.15, at 6 p.m. Dinner and dance.

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Cobb's Restaurant, Cobb's Corner, Sydenham, at 6.30 p.m. for 7 p.m. Dinner and dance.

#### Thursday, November 4

EDINBURGH AND SOUTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.45 p.m. Mr. A. G. Fishburn on "The British Veterinary Codex."

EPSOM AND SUTTON BRANCH, PHARMACEUTICAL SOCIETY, Spread Eagle Hotel, Epsom, at 7.45 p.m. Mr. T. C. Denston (secretary, British Pharmacopoeia Commission) on "The Pharmacopoeia, the Prescriber, and the Pharmacist."

HULL CHEMISTS' ASSOCIATION and BRANCH, New York Ballroom, Hull, at 7 p.m. Dinner and dance.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Astoria ballroom, Roundhay Road. Dance.

#### Friday, November 5

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Y.W.C.A. lounge, 18 Slater Street, Liverpool, at 7.15 for 7.45 p.m. Dr. I. R. Nussbaum on "The Use of Drugs in the Treatment of Mental Disorders."

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Lambeth Town Hall, Brixton Hill, London, S.W.2, at 7.35 for 7.50 p.m. Mr. J. Wright (assistant secretary, National Pharmaceutical Union) on "Current N.H.S. Negotiations."

## WORLD TRADE

**Italian Mercury Exports.** — Exports of mercury from Italy in the first eight months of the year amounted to 1,675 tons against 834 tons in the comparable period of 1953.

**Cortisone Plant for Argentina.** — A United States firm has been authorised by the Government of Argentina to invest U.S. \$200,000 in a plant for the manufacture of cortisone and hydrocortisone. It is expected that the new plant will be in operation within about eighteen months.

**India Bans Starch Imports.** — In order to help the indigenous starch industry, the import of starch has been totally banned by India. Annual requirements are estimated at 65,000 tons. During 1953, Indian starch production totalled about 17,194 tons. During the first seven months of 1954, the output rose to 24,000 tons.

**U.S. Lithium Plant.** — American Potash and Chemical Corporation plans to construct a 6-million-dollar plant at San Antonio, Texas, to make lithium chemicals. Initially, lithium hydroxide will be produced. The plant will be owned by a newly formed company, American Lithium Chemicals, Inc., which is owned to the extent of 50·1 per cent. by American Potash. The balance of the new firm's stock is held by Bikita Minerals, Ltd., of Britain, which will supply high-grade lithium ores for the plant from its large deposit in Southern Rhodesia.

## TERRAMYCIN IN BRITAIN

**Sir Alexander Fleming inaugurates fermentation plant**

AT Richborough, Sandwich, Kent, on October 21, Sir Alexander Fleming, discoverer of penicillin, ceremonially launched a new fermentation plant at which Pfizer, Ltd., will produce Terramycin and other antibiotics.

Thirteen years previously—in October 1941—the parent company (Chas. Pfizer & Co., Inc., U.S.A.) had brought an experience of twenty years of industrial fermentation processes into a co-operative effort by British and American workers to manufacture in mass quantities the antibiotic that Sir Alexander had discovered and Sir Howard Florey and others had developed. Messrs. Pfizer became the first American manufacturers of penicillin and have been one of the largest producers ever since.

### Symbolic Ceremony

Construction of the new works is actually well under way, and the ceremony was symbolical. With a silver spanner that was afterwards presented to him, Sir Alexander tightened two nuts upon a girder destined to support the first of a series of fermenting tanks. Below it, a concrete block will permanently bear an engraved stainless steel plate with the inscription:—"COMMEMORATIVE FOUNDATION CAP SET IN PLACE ON THE TWENTY-FIRST DAY OF OCTOBER, NINETEEN HUNDRED AND FIFTY-FOUR, BY SIR ALEXANDER FLEMING, F.R.S., FROM WHOSE DISCOVERY OF PENICILLIN SPRANG THIS GREAT INDUSTRY."

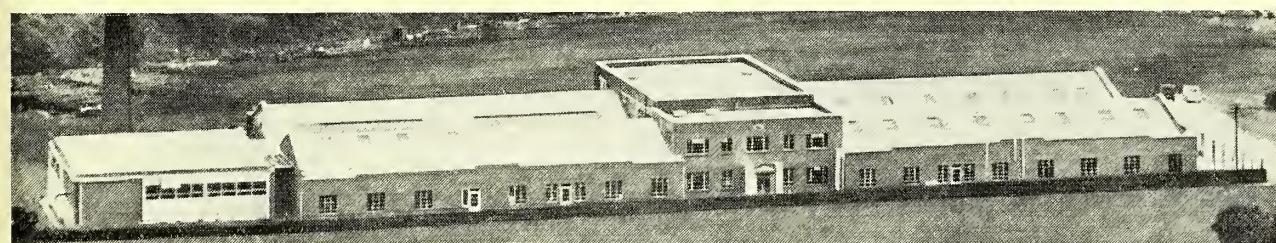


Construction in progress at the Richborough works of Pfizer, Ltd.

In this autumn month of October there began the co-operative effort by British and American scientists which today we commemorate with simple ceremony. The life-saving seed you planted in the United States of America during that time of trial grew and multiplied and now takes root anew for the production of British antibiotics dedicated to the well-being of mankind."

Also present at the ceremony were

ger, Pfizer, Ltd.) made short speeches. MR. RODGERS said that, on completion of the Sandwich works, his company would have invested £2½ millions in their British enterprise. Terramycin had first been made available in Britain in May 1952. Since that time it had been imported from the United States, and from February 1953 the company's refining and packaging plant at Folkestone had been in operation. Terramycin



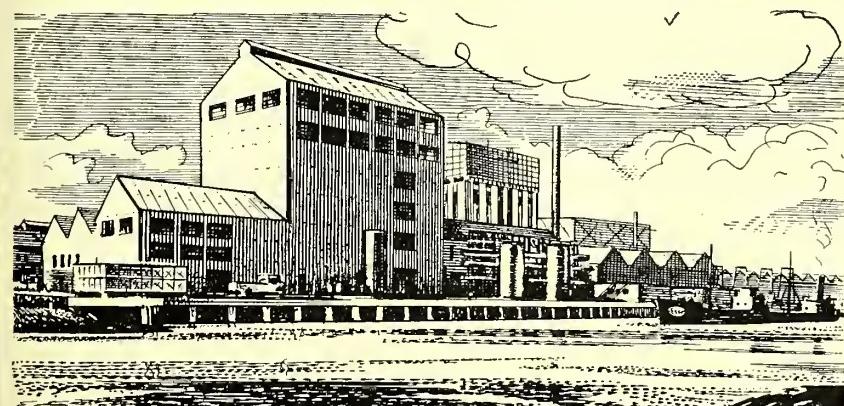
The Pfizer refining, filling and packaging works at Folkestone, Kent.

A cable sent by Mr. John E. McKeen (president of the parent company in New York) was read by Mr. Richard C. Fenton, the company's director of European operations. "More than a decade has passed," it stated, "since

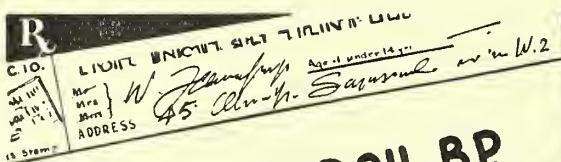
Lady Fleming and the mayors and mayoresses of Sandwich and Folkestone. Afterwards, a Press luncheon was held at which Mr. Fenton presided, and the mayors of Sandwich and Folkestone, and Mr. John A. Rodgers (man-

was thereafter distributed to hospitals and the demand became so great that the decision was taken to manufacture as well as refine the antibiotic in Britain. Initially about 100 locally recruited people would be employed at Richborough, and the number should increase steadily to 500 or more. More than 300 people were already employed in Folkestone.

As has been announced (*C. & D.*, October 16, p. 385), Terramycin, like aureomycin, is being made freely available to prescribers from November 1. It is a broad-spectrum antibiotic obtained from *streptomyces rimosus* and is effective against streptococci, staphylococci and pneumonia — the causative agents of septicæmia, osteomyelitis, pneumonia, peritonitis, meningitis, urinary tract infections and bacterial endocarditis—and useful in the treatment of virus pneumonia, gonorrhœa, bacillary and amœbic dysenteries, gas gangrene, typhus and undulant fevers, and other conditions to a total of eighty.



An artist's sketch of the factory as it will appear when completed.



## ZINC + CASTOR OIL B.P.

1953

Mitte 3½ WF JAR FITTED SEPIA  
DOUBLE SHELL SCREW CAP  
Mod. op. MANUFACTURED FROM HIGH  
GRADE MATERIAL HOMOGENISED  
TO MICROSCOPIC FINENESS  
YOUR OWN NAME + ADDRESS  
AT PRICES QUOTED

Sig

# Counter Packs at dispensing prices

#### Quantity Discount Prices.

	Zinc and Castor Oil Cream B.P. 1953.				
Free from P.T. List	3 doz.	6 doz.	12 doz.	24 doz.	60 doz.
1 oz. Jars	6/-	—	5/9	5/6	5/3
2 oz. Jars	9/-	—	8/9	8/6	8/3
4 oz. Jars	14/3	—	13/9	13/3	12/9
					12/3

TERMS Less 2½% 14 days.

FREE delivered van area. Outside carriage extra at cost.

SAMPLE SENT ON REQUEST.

Operation of Quantity Discount Prices. The prices shown under the various quantity headings can be taken for that product in any combination of sizes. Terms : less 2½% 14 days. Free delivery VAN area.

## SKUSE & CO. LTD.

Manufacturing Chemists

839/841 Harrow Road, London, N.W.10 'Phone : LADBROKE 2201-2-3 'Grams : SKUDENT, HARLES

### Dispensing

## CORKS?



Immediate delivery from  
**RANKIN BROTHERS & SONS**  
(RANKINS PARTNERS, LTD.)

OWNERS OF THE FINEST  
CORK FORESTS IN PORTUGAL

139 Bermondsey St., London, S.E.1  
Telephone: HOP 0074

### A NEW 'HYGENE' BEST-SELLER!



THE FIRST AND ONLY  
PERFECT CABINET FOR  
STORING TOOTH-PASTE  
AND BRUSHES, INCOR-  
PORATING SPACE FOR A  
TUMBLER AT EACH END.  
IN GREEN OR IVORY  
PLASTIC, IT RETAILS AT A  
VERY LOW PRICE AND IS  
BACKED BY ADVERTISING.  
YOU SHOULD STOCK  
THIS NOW!

For full details of this and  
other attractive 'HYGENE'  
products, write to manu-  
facturers:-

**PROGRESSIVE NOVELTY INDUSTRIES (M/c) LTD.**  
PROGRESS HOUSE, 111 GEORGE LEIGH STREET, MANCHESTER, 4

CW/2759

## "NORVEX" PRODUCTS

SPONGE BAGS · BABY PANTS  
COT SHEETS · TOILET BAGS  
FACE CLOTHS · Etc.

EXTENSIVE RANGE OF DESIGNS AVAILABLE  
AT COMPETITIVE PRICES

WHOLESALE AND RETAIL ENQUIRIES INVITED

Write for Samples to :

**CROSSKILLS** of NORWICH

**Wimzo** ALWAYS MEANS  
CLEAN HANDS

ASK YOUR WHOLESALER, OR WRITE:  
**WIMSOL LTD., KEIGHLEY**, FOR TERMS

### INFORMATION WANTED

The Editor would appreciate information about  
suppliers of the following items:

Finger stalls (polythene sheet)

VITALIS hair tonic



# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

ESTABLISHED 1859

Published weekly at

28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565

TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

## Battles of the Broad Spectrum

THE release of aureomycin and Terramycin to general medical practitioners (see *C. & D.*, October 16, p. 385) betokens a greatly improved supply position of those two broad spectrum antibiotics. Aureomycin is understood to be now made in this country, and a new plant at Sandwich (see p. 443) will in the course of a few months be producing Terramycin, so it need no longer be brought in crude from the United States for refining and packaging in Britain.

The release is probably also a clearing of the decks for intensified competition among products in that group. The makers of aureomycin claim to have "developed," and the makers of Terramycin to have been the prime discoverers of, a compound—tetracycline—closely allied chemically to both those antibiotics and itself a broad spectrum antibiotic with possible advantages over the others. It is believed that the makers of aureomycin discovered tetracycline independently but later. It is not disputed that they have shown a greater interest in and enthusiasm for the new compound. Not only did they set about producing it in a big way, but they persuaded prescribers in the U.S.—though not, it would appear, in 100 per cent. of other territories—to administer Achromycin (their trade name for tetracycline) in place of aureomycin.

The ticklish situation in which one company could claim priority of discovery and another priority of development was further complicated by the fact that, though there may be many ways of producing tetracycline, the most satisfactory at present, from the point of view of cost, is by hydrogenation of aureomycin. In the circumstances an exchange of rights would suggest itself as the obvious move, and the appearances suggest that some such accommodation has been reached. For the makers of Achromycin make no claim to be the sole producers of tetracycline, and the discoverers of the compound are taking no steps to prevent its exploitation by their enterprising competitor.

At present the initiative in promoting tetracycline is coming from the makers of aureomycin who would, it seems, be quite happy if it superseded that product. The attitude of the Terramycin manufacturers is, in fact, that their product has fully demonstrated its value, so why change? Time may show that each of the three products has uses not shared by the others, but there will remain a large area of overlap. Past experience would lead one to expect in those circumstances that one product would slowly gain on its

rivals. Few people would be so rash at this stage as to prophesy which that will be. It is perhaps significant that the new plant at Sandwich is designed so as to be readily adaptable to the production of other types of antibiotic than the one for which it is initially going to be used.

## Overseas Trade in September

UNITED Kingdom exports in September were valued at £210·4 millions—a little more than in August. For the third quarter exports averaged £221·0 millions, over £9 millions a month more than in the corresponding quarter last year and about as much as in the third quarter of 1951, when the previous highest value figure was recorded for this time of year. This year, however, the rate of improvement has fallen in successive quarters as compared with 1953.

Imports in September amounted to £285·8 millions, an increase of £19 millions over the seasonally low August total. The monthly average for the third quarter at £279·3 millions was little different from the rate in the first half of the year.

Re-exports in September were valued at only £6·2 millions against an average of £7·9 millions for the third quarter. The excess of imports (valued c.i.f.) over exports and re-exports (valued f.o.b.) amounted to £50·4 millions a month in the third quarter compared with £51·6 millions in the previous quarter and £54·8 millions in the third quarter of 1953.

Australia was by far the largest customer for medicinal and pharmaceutical products, the value of purchases being £357,899: Pakistan was next with £199,021. Exports of those products listed separately followed fairly closely the pattern set in previous months. An exception, however, was provided by penicillin, the value of which slumped to £189,759 from an average monthly rate in 1954 of £288,700. The total value of drugs and pharmaceutical products shipped was £2,759,881 of which proprietary medicines accounted for £734,297, antibiotics other than penicillin for £360,026 and sulphonamides for £140,011. Showing a slight rise during September compared with August were insulin valued at £40,279; ointments and liniments, £83,516, aspirin, £72,944 and alkaloids, excluding quinine, £79,127. Vitamins at £238,098 were the highest since statistics for that group were provided. Medicines showing a fall included antihistamines at £26,047; barbiturates, £39,461 and liver extracts, £14,706.

Although essential oils at £37,274 reflected in some measure the growing firmness of that market their value has been exceeded on four occasions during the year.

Facial cosmetics shipped overseas during the month were valued at £220,242 bringing the total for the nine months of 1954 to £1·92 millions against £1·57 millions in the corresponding period of 1953. Dentifrices totalled £125,072 and toilet soaps £187,453. The value of detergents exported in September was £341,420 bringing the total for nine months to £2,863,774.

On the import side the value of vitamins was also a record at £147,783. Antibiotics at £287,372 and alkaloids at £89,976 were higher than in August whereas proprietary medicines at £23,318 and unclassified medicines at £196,531 were lower. The increasing interest in menthol is shown by the fact that 22,356 lb., valued at £28,635 were imported—a record for any month this year.

# CORRESPONDENCE

*Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.*

## VETERINARY CHANNELS

SIR.—We learn with regret that Imperial Chemical (Pharmaceuticals), Ltd., are to follow in the steps of those manufacturing houses which restrict the distribution of certain pharmaceuticals to veterinary surgeons, and we have found little in Mr. T. W. M. Bland's letter (*C. & D.*, October 23, p. 424), to excuse his company's policy. Mr. Bland's statement is at variance with literature published by the company. Hibitane intramammary cream, he informs us, is for the treatment of "certain special types of mastitis." But their folder describes the product as non-toxic and effective against a wide variety of organisms; it is stated to be "indicated in the treatment of bovine mastitis" (no qualifying adjectives here) "and is of particular value in cases unresponsive to penicillin and other established intramammary treatments." Useful results are claimed in cases of staphylococcal and certain streptococcal infections not only of udders but in other tissues as a general anti-bacterial agent. No contra-indications are mentioned. With regard to the udder wash, leaflets describing it were distributed more than a month ago at the British Veterinary Congress. The leaflet gave every particular of application and dilution and the cover was overprinted with a notice which included "It will be available in the near future." The distribution of intramammary injections is largely established in the hands of a few thousand veterinary surgeons, many of whom actively favour those products which are reserved exclusively for their own profession. Nor are we impressed by the information that the British Veterinary Association believes that "such treatment of mastitis should be under the supervision of the veterinary surgeon who carries out the diagnosis." There are aspects of this controversy which merit the close attention of all retail pharmacists. What is our view of the assumption by another profession, of the authority to decide what preparations should be reserved for the use of their own members? Are we willing that the B.V.A. and certain manufacturing chemists should decide what pharmaceuticals we are, or are not, qualified to handle? Are we agreeable to delegating our legal and professional responsibilities to these other bodies? If we feel that this is wrong, that the pharmacist is the only proper supplier of pharmaceuticals, then we must decide what action should be taken to protect what we consider to be our legitimate interests. The pharmacist who started this correspondence suggests that we withhold support of Hibitane udder wash unless allowed to handle all Hibitane formulations. As a first step towards regaining some of the ground lost during the past few years, we think that this action would be both reasonable and practicable.

SHREWSBURY

HODGES & MOSS, LTD.  
A. E. MOSS

## LOCATION OF PRICING BUREAUX

SIR.—The statement in the letter from the clerk of the Joint Pricing Committee for England (*C. & D.*, October 9, p. 374) that contractors in London and Middlesex are "puzzled" by the moving of their prescriptions to the North-east is a masterpiece of understatement. They are not only puzzled, but dismayed. Since 1913, London prescriptions have been priced in the London area, and should continue to be so priced. Mr. Haigh states that nearly one-third of the total of N.H.S. prescriptions in England emanate from the South-east, yet out of sixteen bureaux only three are in that area. Who is responsible? The very Committee which is now using this argument as an excuse for an entirely inexcusable piece of humbug.

When the Joint Pricing Committee was set up, the intention as shown by the advertisement for a clerk to that Committee, was to establish the headquarters of that Committee in the London area, yet we now find the headquarters in semi-isolation in the North-east, away from the bulk of the prescriptions and from the Ministry of Health. In every other Executive Council area in which there is a Pricing Bureau, the prescriptions of those Executive Councils are priced at the "local" bureau. Yet

the prescriptions which, because of the very nature of the Metropolis, require special "local" knowledge more so than any others, are sent the furthest away.

The amount of work involved in transferring records from the London Bureau to the North, and the rearrangement within the London Bureau to deal with a number of small areas must have been very considerable. If the six points, or should they be called excuses, enumerated by Mr. Haigh, are examined, they are not the formidable structure they appear at first sight, they are, in fact, a "house of cards."

(1) The Joint Pricing Committee has known for a long time, the number of prescriptions dispensed in the South-east, but has already closed down one Southern bureau, so that an additional one might be opened in the North. (2) That there are only three bureaux in the South-east is the fault of the Joint Pricing Committee which seems obsessed with the idea that prescriptions can only be priced in the North. If, instead of four new bureaux in Newcastle, one of those had been in the South-east, no complicated switch would have been necessary. (3) Admittedly one bureau cannot price all London prescriptions in full. Better, surely, to price as many as possible in London, and the remainder at Clapham or Leytonstone. (4) Why not use Leytonstone to share some of the London and Middlesex prescriptions? (5) No suggestion has been made that the prescriptions of London and Middlesex should not be moved around, but only that they should remain in the South-east, and not go to the North-east. (6) This point has already been dealt with. If it is the policy to open bureaux in the North, the future employment of the staffs in the three remaining South-eastern Bureaux, may be jeopardised in the same way as the Bristol bureau.

No one will deny that the Pricing Bureaux staffs have accomplished a remarkable job in overcoming the arrears in the way they have done. These arrears were overcome, however, with the London prescriptions being priced in London. The increase in the number of prescriptions to be priced is bound to make additional work. This additional work is, to a very large extent, an unknown quantity. Surely it would be wise to leave prescriptions so far as possible, in the very bureaux which have handled them for years and know local conditions and peculiarities. The successful employment of logistics requires a logical approach to the task in hand, and not an over-indulgence in statistical hypotheses.

LONDON, S.E.20

NELLIE E. D. COMER

## PHARMACEUTICALS IN INDIA

SIR.—As an Indian interested in chemical and pharmaceutical developments in India I have noticed that the report (*C. & D.*, October 16, p. 397) has not been received favourably in this country. I could not find any reason for it. The report laid down the future policies to be pursued and emphatically stated that every encouragement and facility would be given to any company taking up real manufacturing of basic pharmaceutical products in India, as distinct from those doing mere formulations. No country can encourage undesirable competition from foreign firms. I wonder why the foreign companies should not be asked to take up manufacture of new drugs and research and development work in India. We want help and co-operation from other countries to our mutual benefit so long as it does not become a one-sided affair. Here I may quote what Mr. John McEwen (Australia's Minister for Commerce and Agriculture) said in London recently:—"I am conscious of the United Kingdom's interest in keeping her own costs of living and production down, but I hope it will also be recognised here that we cannot buy at a greater rate than we earn. Our interests are closely mutual and complementary." The same thing applies in India's case as well. I think infringement of patent laws has been cited as an extreme case. Quite often I have heard about the security for investment in India and in my opinion the goodwill of the people of the country is the best form of security that is possible, for in this changing world no government, however stable, can give abso-

lute surely. The interested parties must also join to create congenial conditions. During the period January to June the profits remitted abroad by foreign firms and companies operating in India amounted to Rs. 91 millions. The largest amount, namely, Rs. 78·2 millions was transferred to the United Kingdom (1 Rupee = 1s. 6d. approximately). I do not know the profits made by chemical and pharmaceutical manufacturers, hence I have quoted the total figure.

DATCHET, BUCKS

H. D. LAHIRI

[Mr. Lahiri might also have given India's export figures which would have revealed that the United Kingdom was that country's best customer. The quotation given therefore is equally relevant to trade in the reverse direction.—EDITOR].

### BETWS-Y-COEDUCATION

SIR,—John Saxon (see *C. & D.*, October 16, p. 403) lives up to his surname. Not only has he failed to master the Welsh character—he has equally failed to master Welsh topography. The humped-back bridge, erroneously attributed to Inigo Jones, has carried traffic over the river Conway for three centuries or more, and far from being at Pont-y-pair, is to be found at Llanrwst, four miles away.

Maybe it was moved to Pont-y-pair for the benefit of our illustrious V.I.P.s! The Druid Stones (or more correctly Gorsedd Stones) have kept the old bridge company for three years only, but never in their short history have they been the site of an Eisteddfod—that was held a good mile away. And the peacocks strut their disdainful way within sight and sound of both bridge and stones, many hilly miles from the Swallow Falls. Knowing the mayor of Colwyn Bay I doubt very much that he would maltreat his native language by spelling the Welsh for "Swallow" with a hyphen, one "n" and no "G"! Could it be the effect of the coffee imbibed at the Waterloo Hotel that leads pilgrims to seek Gelert's grave at Betws-y-coed (one "t," please!), and not at Beddgelert many leagues distant? And were the self-same pilgrims to look for the "village once destroyed by mountain waters that burst their dam" anywhere near the Llanberis pass I am afraid they would be sadly disappointed, for it lies on the banks of the river Conway about three miles up river from Conway itself! Should John Saxon pay another visit to this district I would be very happy to try to keep him on the straight and narrow path!

LLANRWST

RHYS C. WILLIAMS

### HOSPITAL PHARMACY FORUM

## RESPONSIBILITY FOR POISONS

It may safely be said that the one person on the hospital staff who by his training must know the legal requirements regarding poisons is the pharmacist. He alone is required to know the Dangerous Drugs Act and the Pharmacy and Medicines Act as they apply to hospitals and he is normally expected to act as advisor in these matters to his Board of Governors or Management Committee.

One feature, however, is very ill-defined. It is the scope of his authority. For example, it is required that he should inspect the cupboards in which poisons are stored at intervals of not less than three months. This statutory authority is limited to inspection of the poison cupboards. If the sister of a ward should see fit to store heroin in the drawer of her desk this would be outside the pharmacist's purview: he has no authority to inspect the ward, the duty room and all the other odd corners where poisons might be left.

Again, the nature of the responsibility is obscure. Is the pharmacist carrying out this duty on behalf of the management, the Poisons Board, the Ministry of Health or the Home Office? To whom, in an extreme case, does he appeal for enforcement of his recommendations?

In some hospitals the pharmacist's recommendations are readily accepted as authoritative and indeed, he is expected to be responsible for the control of poisons far beyond what is stated in the Act. When, for example, a bottle containing diamorphine injection has gone astray, he is expected to deal with the investigation. According to the law the sister in charge of a ward is an "authorised person" allowed to be in possession of Dangerous Drugs and it could be held that once the pharmacist has obtained a signature for a supply of drugs, his responsibility for its safe handling is discharged. From that point, the responsible person is the sister. This is a viewpoint which might well be emphasised to members of the nursing staff when the pharmacist is called upon to give instruction in these matters. It would certainly seem to be unwise for the pharmacist to accept responsibility for the way in which drugs are handled on the wards, since neither he nor any of his representatives can be present to enforce observation of the rules. The most he can do is to act as a member of a team together with the matron, the medical staff and the management authorities to advise on how best to implement the statutory rules and how to extend the rules in order to ensure the safety of patients against error or misdemeanour.

There is great variation between hospitals in the matter of internal poisons rules. No doubt the different requirements of the hospitals have given rise to various interpretations from time to time. It is surely becoming necessary to rationalise the system if only to avoid confusion in the minds

of nurses who may transfer from one hospital to another.

Discussions on these matters, first by pharmacists and then in collaboration with members of the nursing profession could do much to clear away misconceptions and establish good relations among all concerned in the handling of drugs.

### BRITISH FINE CHEMICALS AND THEIR USES

#### 20. FERROUS SULPHATE

FERROUS sulphate is supplied in pure and commercial qualities containing seven molecules of water, and also as the precipitated or residual compound containing one molecule of water. The appearance of the crystals soon reveals if the principal impurity, namely, the oxide, is present, which tends to form a yellowish coating on the surfaces.

Medicinally it acts as a powerful astringent and haematinic tonic. It represents the raw material for production of ferrous ammonium sulphate, ferrocyanides, prussian blue, and a number of other iron salts. It is obtained by dissolving selected sheets of clean scrap steel in sulphuric acid, evaporating, and crystallising; from pickling liquors, as a by-product in the manufacture of alum, and by oxidising iron pyrites. This accounts for the reason why impurities found in the commercial salt sometimes vary quite markedly. Industrially it is employed in the preparation of pigments and colours, amongst which are specially precipitated ferric hydrates of different shades and tints. Ferrous sulphate is used as an insecticide, and in the preparation of horticultural sprays, as a fertiliser, in soap making, for the manufacture of inks. It is also used in the ceramic industries, in photography, in the process engraving trades, and in the leather and tanning industries. In paper manufacture, it is employed for special purposes such as the production of ferrocyanide paper. In dyeing, it serves as the main material for preparing the various iron mordants, as a mordant for logwood black on wool, and as a reducing agent in vat dyeing. In metallurgy, it is used as a precipitant for gold, for a number of wet extraction processes where its reducing influence is important, and also as a leaching agent. In the laboratory it is employed in both organic and inorganic analysis, and also in certain gas analysis, in the detection of nitric acid and cyanogen, and in rare metal determinations. The associated ferrous ammonium sulphate salt is frequently substituted for these purposes. Because of its various methods of production, the commercial salt may contain different types of impurities, such as salts of manganese, copper, zinc, sodium and alum, and sometimes arsenic. When made from pure scrap steel, it is virtually free from those constituents. While the salt may contain no impurity, it is not possible to guarantee 100 per cent. purity, since water of crystallisation escapes in the drying.

# PHARMACEUTICAL SOCIETY OF IRELAND

## Monthly Meeting of Council

A MEETING of the Council of the Pharmaceutical Society of Ireland was held in Dublin on October 12, Mr. M. Costello (president) in the chair. Other members of Council present were Messrs. P. F. McGrath (vice-president), H. P. Corrigan (treasurer), M. Power, T. B. O'Sullivan, J. J. O'Regan, E. MacSweeny, D. J. Kennelly, J. A. O'Rourke, J. Gleeson, G. C. O'Neill, T. C. Scott, N. P. McKane, J. P. Kissane, F. J. Robinson, and F. Loughman. Apologies for absence were received from Messrs. A. A. Toher, C. D. O'Shea, and C. J. Cremin.

### New Members Welcomed

Before the minutes were read THE PRESIDENT welcomed the new members from Cork (Messrs. MacSweeny and O'Regan). Mr. MacSweeny had been a member of the Council previously and he had been a hard-working Councillor. Mr. O'Regan was an outstanding member of the Guild of Pharmacy. Mr. Costello said that he was sure that all would join him in regretting that Mr. Brooke-Kelly was no longer with them, as he had given conscientious and valuable service on the Council for over twenty years, and had been a member of the Society for over thirty years. On behalf of all, he thanked Mr. Brooke-Kelly, and also Mr. Dick Daly of Cork, another esteemed member of Council. Through lack of time, Mr. Daly had not sought re-election. The Council wished him the best for the future (applause).

MR. MACSWEENEY thanked the president and members of Council for the way in which they had received him back. At meetings of the Guild he had frequently complained of the apathy in pharmaceutical affairs in the South, and in order to arouse keener interest in the work of the Society Mr. O'Regan and he had come forward. Continuing, Mr. MacSweeny said that the election had been a great credit to the Council, as shown by the fact that so many of the outgoing Councillors were re-elected. It should be a source of great encouragement to them in their work in the future. Associating himself with Mr. MacSweeny's remarks, MR. O'REGAN also thanked the Council for their reception and congratulated the president on winning the White trophy (see *C. & D.*, September 25, p. 301).

THE REGISTRAR (Mr. J. G. Coleman) reported on the proposal to have an international pharmacy students' congress in Dublin in August 1955, and said that the students' body in Dublin had been informed by the Tourist Board that a grant could not be given for a congress held during the peak months. It had been explained to the students that the Council would be so busy with the pharmaceutical conference in 1956 that it could not give much assistance either. Since the students had been informed from London that the congress could only be held in August, he suggested that they should put up the proposal that it should be held some other year in Dublin.

The Council decided to take no action on a memorandum from the Wholesale Grocers' Association inviting them to join in an appeal to have the existing method of election to the Senate altered.

The next item was the election of officers for the ensuing year. MR. MCGRATH proposed the re-election of Mr. Costello for a second year's term as President, saying that it would be superfluous for him to stress the president's work for pharmacy; the able and comprehensive report he had presented to the annual meeting the previous night was eloquent testimony of his worth to the Society. They were all particularly proud of him at Oxford, where he had been called upon to propose a vote of thanks at the close of the British Pharmaceutical Conference. MR. O'NEILL, seconding, said that he agreed with Mr. McGrath that it would be superfluous to give reasons why Mr. Costello should be elected. Not only the older members, but also the new

Councillors were aware of all that Mr. Costello had done. Those who were at Oxford thought that the president had brought honour on his country, not only in the professional field, but also in the realm of sport he had achieved great things. In re-electing him to the presidency he thought they were effecting the wishes of the electorate, because Mr. Costello had received a mandate from chemists all over the country to carry on the work he was doing. If in the next twelve months that was carried on with the same success as in the past year, everyone would be happy. The election of Mr. Costello was carried with applause.

Returning thanks, THE PRESIDENT said that at one time he thought the presidency of the Society was a care-free honour, but he had changed his mind about that. It was a real pleasure to him not only to work with his colleagues on the Council as a member of a team, but also with the members throughout the country. That was because members of the Council were always willing to give generously of their time and advice, and that made it possible for the honorary officers to go to Departments and get results. Knowing that the Council was behind them it was a pleasure to do all those things. Mr. Costello then moved that Mr. Frank McGrath should be re-elected Vice-president; of his work on the Health Council he could not speak too highly, and the Council was proud of him as its representative. Speaking as president, he could not continue without Mr. McGrath's assistance.

MR. SCOTT, seconding the motion, said that few of them realised the extent of the work Mr. McGrath had done on the Health Council since the Health Act came into force. The Society was very lucky to have men of the calibre of the president and vice-president in office at this critical time, and he hoped they would continue in office for a few years more.

MR. MCGRATH, who was unanimously re-elected, said no matter what problem he came up against he always felt happy in the thought that he could come back to the Council and discuss it with them. It was an honour to be an officer of such a Council.

MR. GLEESON moved the re-election of Mr. Corrigan as Treasurer, and said they all realised how efficiently he handled the financial affairs of the Society from the able statement that he made at the annual meeting.

MR. ROBINSON, seconding, said: "I don't think we could have a better treasurer."

THE PRESIDENT: I would like to add my own tribute to the masterly way in which Mr. Corrigan presented his accounts at the annual meeting.

Mr. Corrigan was re-elected amidst applause, and in reply, said how deeply grateful he was for the continued trust placed in him.

Messrs. J. J. Griffin & Co. were elected auditors, and members elected to the House, Law, Schools, Certificates and Declarations, and Benevolent Fund Committees. Completed pages of the Registers were signed, and visitors appointed for the October examinations.

An invitation was received from the West of Ireland Chemists' Association inviting the officers to the meeting to be held in Galway on October 17, and THE PRESIDENT intimated that both the vice-president and he would attend.

### Examiner Resigns

A letter of resignation was read from Mr. T. R. Bourke, stating that as he was opening a pharmacy at Portstewart, co. Derry, he would be unable to continue as examiner to the Assistants' examination. Accepting Mr. Bourke's resignation, THE PRESIDENT said the Council was sorry to lose him, as he had been a good examiner, and very popular.

Dr. John Diamond submitted an L.A.H. certificate, and was granted registration as a pharmaceutical chemist. Pre-

liminary registrations were notified in respect of the following:— Gerard Hugh Brady, Timothy Terence Cashman, Matthew Connolly, Edward Richard Corcoran, Mary Curley, Margaret Carmel Daly, John Dillon, Nora Philomena Finn, Bernadette Mary Flannelly, Pauline Mary Fleming, Sean Reilly Gardiner, Marie Gabriel Keane, Brigid Ann Keenan, Timothy Joseph Kerins, Catherine Leo, Brian Patrick McGoldrick, Eva Mary Attracta McGuinn, Anne Bernadette Mangan, Mary Elizabeth Meagher, Michael Joseph P. Mulreany, John Francis O'Brien, John Patrick O'Donoghue, Philomena Josephine O'Farrell, Maurice James Power, Pierce Power, Kathleen Mary Olive Quinn, John Christopher Reilly, John Joseph Sewell, and Thomas Patrick Treacy.

The following changes of address were notified:—

Messrs. Thomas R. Bourke, M.P.S.I., to 11 Portrush Road, Portstewart, co. Derry; Thomas Moloney, M.P.S.I., to Cappoquin, co. Waterford; Thomas G. Reilly, L.P.S.I., to 28 Lissadel Avenue, Crumlin, Dublin; Malachi B. Quinn, L.P.S.I., to Glasthule Road, Sandycove, co. Dublin; Mrs. Sarah C. V. O'Flynn, M.P.S.I., to 11A Barnhill Road, Dalkey, co. Dublin; and Miss Rosarie Leahy, L.P.S.I., to 18 Bridge Street, Mallow, co. Cork.

The reports of the House, Schools, Law and Certificates Committees were submitted and approved. The Law Committee's report contained a recommendation that a special meeting of the Council should be held to consider the problem created by the employment of unqualified people by pharmacists, and THE PRESIDENT said that Mr. Kennelly had suggested holding a special meeting to go into the matter. It was reported that in one town people were losing faith in the pharmacies, and would not have prescriptions made up because so many unqualified assistants were employed.

### Shortage of Apprentices

MR. KENNELLY said that the big difficulty in the country was to get either apprentices or assistants. Country chemists were at their wits' end and advertisements in the Press for qualified assistants got no replies, as most assistants wanted to go to Dublin. In the circumstances pharmacies had to take unqualified counter hands, and he was afraid that in a few years they would be flooded with unqualified people. Students were not taking the Assistants' examination, and the position was becoming more acute, and he thought that the matter should be discussed. The report was agreed to.

When the REGISTRAR reported the death of Mr. John Miller Winckworth, M.P.S.I., who qualified in 1904, it was decided on the proposal of MR. O'NEILL to express the Council's sympathy with the late Mr. Winckworth's family.

THE PRESIDENT gave the Council a report on his visit to the International Pharmaceutical Federation conference in Brussels recently, where he and the Irish representatives were given an honoured place. He supported the idea that the International Pharmaceutical Federation should be able to help its members in various countries with legal advice, and DR. HAUSER, Austria, urged that members' subscriptions be increased, and that the Federation should take more interest in the economics of pharmacy.

MR. MACSWEENEY mentioned the question of giving adequate credits to members of the Council who were absent from Council or Committee meetings due to attendance at other official engagements. He had in mind the case of Mr. Loughman, whose absence from Committee meetings was due to his obligations as a Senator. He should be excused attendance, and that be made clear where credits were being given. THE PRESIDENT, agreeing with Mr. MacSweeny, said that a case in point was that of Mr. Brady, who could not attend that day's meeting because he had to attend a meeting of the Health Committee of Dublin Corporation. MR. O'NEILL thought that in such cases credit should be given for attendance.

MR. LOUGHMAN said that a death in a family should be another valid reason for absence. MR. MACSWEENEY intimated that he would put down a motion on the matter at the next Council meeting.

MRS. K. FOGARTY O'BRIEN wrote stating that a sale of work to provide wireless for the blind was being held at the Mansion House, Dublin, and that any former colleagues in pharmacy who wished to send subscriptions should address them to her at 17 Ormond Road South, Rathmines, Dublin.

### Fair Trade Commission

The secretary of the Fair Trade Commission wrote stating that an inquiry was to be held concerning the supply and distribution by wholesale and retail of proprietary and patent medicines, infant foods, and medical and toilet preparations, and that the Commission would want to hear evidence from a representative, or representatives, of the Pharmaceutical Society of Ireland. Arrangements for the hearing of such evidence would be made later, and it was thought that it would be possible to arrange for such a hearing at a date convenient to the Society. The Council considered the case it would present in the interests of its members and licentiates, in consultation with Mr. John J. Gaynor (the Society's legal adviser).

MR. KENNELLY raised the question of an appointment recently advertised in the pharmaceutical Press, and heard the Council's views on the matter.

Licence certificates were signed and sealed for Gerald Maguire, Francis J. Murray, William O'Connell, Misses Julia Gamble and Ellen M. Twomey. The dispensing chemist and druggist certificate of Hugh McElhinney was also signed.

The following were elected members of the Society: Miss Emma F. Greene, Mrs. Sheila Kirwan, Messrs. Michael Power, Charles Moore, and Milne Ongley.

The following were nominated for membership:—Messrs. Albert John McCormack, 43 Main Street, Dungarvan, co. Waterford; Donal Padraig Sammon, 23 Matthew Avenue, Thurles, co. Tipperary; Thomas G. Reilly, 28 Lissadel Avenue, Crumlin, Dublin; Trevor Winckworth, Mullingar, co. Westmeath; Andrew H. French, North Street, New Ross, co. Wexford; Sister Mary Pacelli Ward, Medical Missionaries of Mary, St. Luke's Hospital, Anua, Uyo, Southern Nigeria, British West Africa; and Mrs. Ellen McEvoy, Grangard, co. Longford.

At a meeting of the Benevolent Fund Committee held after the Council meeting, grants totalling £72 were passed for payment. Those included a grant in one case of £24 towards funeral expenses.

Before the meeting terminated THE PRESIDENT expressed the pleasure of the Council at the good recovery the registrar was making after breaking his ankle.

## MEDICAL ABSTRACT

### CARBON DIOXIDE SNOW AND WARTS

It has been demonstrated by Crow and Scott (*Lancet*, 1954, 2, 312) that carbon dioxide snow is an effective cure for warts of the feet, and the recurrence rate is lower than with surgical treatment and subsequent cauterisation (7 per cent. compared with 19 per cent.). There was also less pain during and after treatment, and only thirteen of 142 patients were unable to walk after an average of four days, but in a comparable series of sixty-seven patients treated by curettage and cauterity, sixteen could not walk for an average of twelve days. It is emphasised that prior to freezing, the thick hyperkeratotic cap of the wart must be removed with a scalpel by paring until minute bleeding points appear, as otherwise the cure-rate falls to about 50 per cent. The pencil of "snow" is made of slightly larger diameter than the wart, using a Sparklet type apparatus, and a wooden mould. The "pencil" is then firmly applied to the wart for a period of five minutes. A blister appears within four days, and is removed together with the wart after seven days. An adhesive dressing is applied to the raw surface, which heals painlessly within a few days. The treatment is suitable for all except young children under the age of five years and a few hypersensitive adults who need general anaesthesia however small the operation. Sleep is rarely interfered with, and children generally return to school the next day.

# A MODERN COURSE OF PHOTOGRAPHIC STUDIES

By

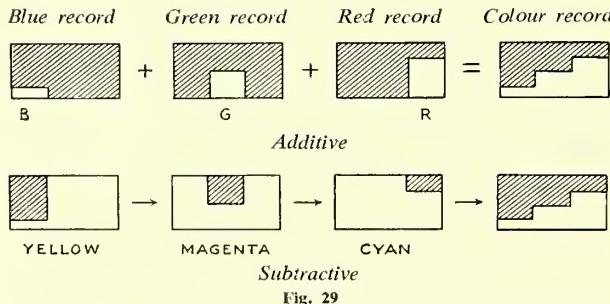
H. BAINES, D.Sc., F.R.I.C., F.I.B.P., HON. F.R.P.S.

## 9. COLOUR PHOTOGRAPHY

### PART 2: THE SUBTRACTIVE PROCESS

HERE is an alternative method of applying trichromatic colour photography that avoids the defects inherent in the additive process. While the additive process reproduces colour by addition of red, green and blue constituents, the alternative process, known as the subtractive process, reproduces colour by the successive absorption of appropriate amounts of red, green and blue from white light.

The subtractive process is not easy of comprehension. Let us revert to the conceptions outlined at the commencement of the previous article. A view is normally illuminated by white light, and light and shade and colour are perceived because of variations in absorption and reflection from different parts of the view. A black-and-white picture is produced by a positive image of black metallic silver, which absorbs light in proportion to the total absorption of corresponding portions of the view. If we wish to record colour, the positive image must absorb the correct amounts of red, green and blue independently. We must therefore produce our colour photograph by passing white first through a red record, which *absorbs* the appropriate amount of red—and red only. The transmitted light must then pass through a green-absorbing record, and finally through a blue-absorbing record. The differences between the additive and subtractive processes are illustrated in Fig. 29.



Thus the three records must be positives, of which the absorber is not silver (which absorbs equally throughout the spectrum) but dyes, which absorb only red, green and blue respectively. Now a dye that absorbs red only will transmit the two remaining primary colours—green and blue, and will therefore appear a blue-green. Since a blue + green colour is of importance in colour photography and has no name, it has been christened "cyan." The green record is printed in a green-absorbing dye. That dye

transmits red + blue and appears magenta in colour. Finally the blue record is printed in a blue absorbing, i.e., red + green transmitting dye, and a mixture of red + green is yellow. We can easily accept that green + blue = blue green or cyan, and that red + blue = magenta, but we do not accept so easily that red + green = yellow. However, it can easily be demonstrated by overlapping red and green lights from two lanterns, or by spinning a red and green striped top. It cannot be demonstrated by mixing pigments, as the colours are not then added, but subtracted.

Thus while the three colours used in the additive process are the three thirds of the spectrum, red, green and blue, the three colours used in the subtractive process are the three remaining two-thirds of the spectrum, cyan, magenta and yellow, sometimes called minus-red, minus-green and minus-blue. The artist empirically discovered the subtractive process, and the artist's three primary colours, red, yellow and blue are merely an inaccurate way of describing the secondary colours magenta, yellow and cyan. The artist was able to obtain a wide range of colours by mixing his "primaries," because his reds and blues were impure, and contained blue and green respectively.

The difference between colour records by additive and by subtractive methods is illustrated by the following tabulation of the red record:

	Additive	Subtractive
Full red reflection ...	Red (R)	White (R+G+B)
No red reflection ...	Black (zero)	Cyan (G+B)

It will be seen that the subtractive record is identical with the additive record, except that it has the full measure of the complementary colour evenly distributed over the whole record.

To obtain a subtractive colour transparency or print, it is thus necessary as a first step to obtain three black-and-white negatives recording the red, green and blue constituents of a view respectively. From those black-and-white negatives we must obtain colour-and-white positives, the colour being complimentary to that recorded, thus the red record is printed in cyan, the green in magenta and the blue in yellow. It should be noted that, if reversal processing is used, it is not necessary to isolate and print through the black-and-white negative record, but nevertheless it is formed and subsequently destroyed as an intrinsic part of the reversal process.

There are three main methods of producing appropriately coloured images. A positive black-and-white silver image may be "toned," i.e., converted into coloured inorganic pigments, or into colourless salts upon which suitable dyes may be "mordanted," or adsorbed. A second method is to produce an image in relief, so that the thickness of the image is proportional to the log exposure received. If the sensitive material contained pigments in the minus colours (as in the carbro process), the relief would give the required positive. Alternatively the relief may be impregnated with dye, which is transferred to another surface, as in the dye-transfer, or Technicolor process. Those will be considered in more detail later. The third and most important method of producing coloured images is "colour development."

### Colour Development

When the silver halide of an exposed material is reduced to metallic silver during development, the developing agent correspondingly becomes oxidised. The function of sulphite in a developer is to react with the developer-oxidation products to form inert colourless compounds, as otherwise the developer-oxidation products cause rapid deterioration of the developer. However, it is possible to make good use of the reactivity of the oxidation products of some developers. The oxidation products of pyrogallol, for example, will react with gelatin so as to make it insoluble in hot water. A pyro developer with little or no sulphite can therefore be used as a "tanning" developer—thus if an unhardened material is developed therein, the gelatin is

tanned imagewise, in proportion to the silver image formed, and subsequent washing in hot water removes the unhardened gelatin, leaving the developed image in relief. Again, the oxidation products of paraphenylenediamine (p.p.d.) or its derivatives will react with certain organic compounds called "couplers" to give dyes, the colour of which depends on the chemical constitution of the coupler. The amount of dye formed depends on the amount of oxidised developer, and therefore on the amount of silver developed. Thus by developing a material in a p.p.d. type developer in the presence of a coupler, a dye image will be formed simultaneously with the silver image. If the latter is removed, e.g., by Farmer's reducer (ferricyanide and hypo), the dye image remains, and images in cyan, magenta and yellow may be produced by choice of developer and coupler. The coupler may be introduced with the developer, or may be present in the emulsion.

### Producing the Three Records

For still-life subjects, the three records may be taken successively, and "repeating back" cameras, incorporating filters in a sliding panel behind the camera, have been devised. The method, however, is impracticable for general photographic work. Simultaneous photographs may be taken by the use of a "one-shot" camera (Fig. 30), which,

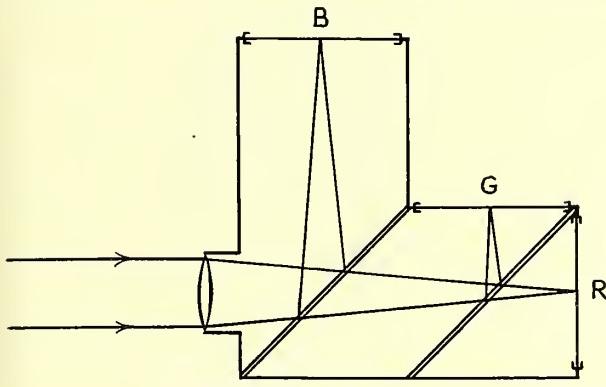


Fig. 30. One-shot camera

by a system of partial reflectors and filters, splits the light to form three identical images. Another means of obtaining simultaneous records is the "tripack," which consists of three superimposed and appropriately sensitised films—inserted in a dark slide—suitably interleaved with filters. The tripack was suggested as early as 1897 by du Hauron, and though they have been marketed, none has survived. The serious objection to them is lack of definition in the lower records, after the light image has been diffused by the upper emulsion.

### The Integral Tripack

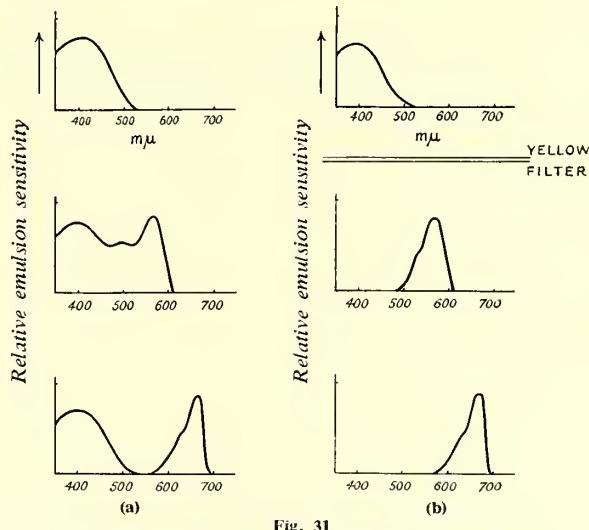
That one objection may be overcome by coating all layers on the same film support; the loss in definition is then negligible, since the top layer is separated from the bottom layer by only a fraction of a thousandth of an inch. The difficulty is to process the three adjacent layers separately, so as to produce a different coloured image in each of the three layers. Methods have been suggested whereby the three layers are separated for processing and subsequently re-registered, but they have had no commercial success. The first commercial application of three emulsions coated on one base—called the Monopack, or more commonly the Integral Tripack—was Kodachrome film, and the integral tripack proved so successful that it is the basis of practically all colour films on the market today.

### Integral Tripack Reversal Film

As a typical example of this colour film, the present Kodachrome film and processing may be briefly described. It consists essentially of four separate coatings on film

base, each of extremely low thickness. It is simpler to consider them in the reverse order of application, i.e., in the order in which light encounters them.

The top layer consists of a non-colour-sensitised emulsion and therefore gives the blue record of the scene. In colour sensitising, we merely add to the spectral sensitivity range; there is no known method of satisfactorily desensitising in the blue while retaining the induced sensitivity in green or red. Consequently immediately under the blue sensitive layer is a gelatin filter layer containing a yellow dye. Immediately below that is an orthochromatic emulsion sensitive to blue and green, but, because no blue light is passed by the yellow filter, it records only the green. Finally the bottom layer consists of an emulsion dyed with a special panchromatic dye that gives high red but negligible green sensitivity. The colour sensitivities are shown in Fig. 31a, and the effective colour sensitivities in Fig. 31b.



(a) Spectrograms of emulsions used on integral tripack film.  
(b) Effective sensitivities with yellow filter between top and middle emulsion layers.

Exposure thus records the red, green and blue constituents in the three layers. The appropriately coloured positive images are produced by the following reversal processing. The film is first developed in a normal developer to give a black-and-white negative image in all three layers. The residual, undeveloped silver halide now forms the positive images that must be converted into the appropriate dye image in each layer. After washing, the film is uniformly exposed through the base to red light, making the red-sensitive (bottom) layer only, developable. It is developed in a cyan-colour developer, which produces a positive cyan image in the bottom layer, together with the development of the whole of the silver in that layer. The film is next exposed from above to blue light, which, because of the yellow filter, affects only the top layer. The residual silver halide in that layer is developed in a yellow-colour developer. The whole of the silver is now developed except that corresponding to a positive image in the middle (green-sensitive) layer, which cannot easily be light-fogged as it is sandwiched between two completely blackened layers. It is therefore developed in a fogging magenta-coupling developer. The whole of the silver of the film is now developed, and it is removed (together with the yellow filter layer) by Farmer's reducer, leaving the requisite three positive images in the minus colours registered to form a colour transparency.

The type of material described is capable of good colour reproduction, and the dyes formed from present-day couplers and developers are reasonably stable to light, temperature and moisture. However, the processing is so complex that it requires continuous running and expensive control apparatus to ensure success. It is quite impracticable for

an amateur or professional photographer to process an integral tripack film without incorporated couplers.

### Integral Tripack Reversal Film with Couplers

The processing of integral tripack reversal materials would be simplified if the appropriate couplers were introduced in the three emulsions. There are two serious practical difficulties. In the first place it is not easy to find couplers that are free from deleterious action on the emulsions; and secondly it is difficult to prevent a coupler from wandering by diffusion from its own layer into adjacent layers. When that happens, the primary colours of a view are recorded partially in the wrong colour, and colour rendering is ruined.

The problems were first solved in the Agfa Neue process of 1937; the couplers were made non-wandering by combining the active coupler molecule with a large, heavy, inert molecule. Other methods of preventing wandering

have been to combine the coupler with the gelatin of the emulsion, and (as in the Ektacolor, Ektachrome and Kodacolor processes), to dissolve the coupler in a solvent non-miscible with water, and then to disperse it throughout the emulsion in minute droplets. When couplers are present, the reversal procedure is more rapid and simple. After developing the black-and-white negative image, the residual silver halide is exposed from both sides to white light and developed in a p.p.d. developer. Removal of silver and yellow-filter layer leaves the coloured positive.

The methods so far described give a colour picture in the form of a transparency that is viewed by direct transmitted light, or by projection onto a screen. It is less convenient to view than a reflection print, but because of the limitations of tone reproduction of reflection prints, and for other reasons, transparencies generally give more pleasing results than paper prints. The latter will be discussed in the next article.

## British Pharmaceutical Conference, Oxford, 1954

### SCIENCE SESSIONS

(Concluded from THE CHEMIST AND DRUGGIST, October 23, p. 431).

The last paper read at the session on September 17 was:—

#### Stability of Penicillin in Sugar-coated Tablets

F. W. ASHBY, P. W. MUGGLETON,  
F. TAYLOR and W. A. WOODARD

SMALL batches of 200,000-unit potassium benzylpenicillin tablets were sugar-coated in a normal sugar-coating pan. The free moisture content being low, satisfactory coating was obtained. The tablets were packed in glass screw-capped bottles fitted with a waxed cork shive. Samples were stored at room temperature (18° to 24° C.) and also in a cabinet thermostatically controlled at 38° C. Results obtained on five batches of tablets stored for three months at 38° C., and on the same five batches of tablets stored for two years at room temperature are tabulated. One batch with a free moisture content over 1 per cent. showed signs of instability after a few weeks at 38° C. The results of stability tests on the second series stored for two months at 38° C. are tabulated.

A standard condition of 25° C. and 75 per cent. relative humidity was adopted for testing the effect of exposure to the atmosphere under fairly severe conditions of humidity. That test showed that the effective life of uncoated penicillin tablets under those conditions did not exceed some fourteen days, whereas the sugar-coated tablets were perfectly stable for at least two months. Exposure of the tablet to a relative humidity of 90 per cent. at 38° C. (extreme tropical conditions) resulted after three days in an unassayable sticky mass from the sugar-coated tablets; a similar state of the uncoated tablets was produced in sixteen to twenty-four hours.

The disintegration time for the sugar-coated tablets was determined. One batch had a solution time of five and a half minutes when first prepared; that time was found to be substantially unaltered two years later. The solution time for other batches (second series)

was found to range from six to eleven minutes. The average solution time of production batches of uncoated penicillin tablets was six minutes. An experiment to study the absorption of penicillin from the sugar-coated tablets by human volunteers, as shown by urinary excretion and blood levels, showed no significant differences between penicillin blood levels or excretion after administration of the coated and uncoated tablets.

*From Glaxo Laboratories, Ltd., Greenford, Middlesex.*

The paper was read by MR. TAYLOR.

THE CHAIRMAN said that the paper, although short, was one of the most important, not that he was trying to discriminate between any of them. He was pleased with the magnificent attendance that morning.

MR. C. W. ROBINSON, Liverpool, congratulated Mr. Taylor and his co-workers on disposing of a too facile assumption that the sugar-coating of penicillin tablets was not practicable. It was a good thing for the progress of pharmacy that the two methods should go on side by side.

DR. D. B. GARRATT, Nottingham, said that the paper in its present form was somewhat incomplete. How were the sugar-coated tablets made?

MR. F. BERRY, Nottingham, asked what was the diluent used; was moist or dry granulation employed; what was the nature of any sub-coating?

MR. R. LEVIN, Liverpool, said that more information was required. Were the authors satisfied with their method of estimating moisture? Had the moisture content of uncrushed tablets been estimated? Were figures for free moisture after storage for periods up to two years available. An unsatisfactory blood level seemed to exist after four hours.

MR. B. A. BULL, Nottingham, said that the moisture content was a key point. The probable solution of the problem lay in the sub-coating of the tablets. Details of the sub-coating would be useful.

MR. D. STEPHENSON, Dartford, emphasised the importance of moisture content. The use of sugar-coated penicillin tablets was never going to be very large.

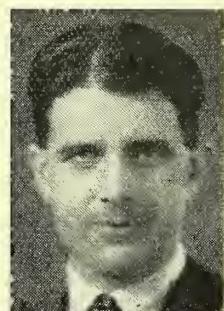
THE CHAIRMAN then called upon the author to "complete his paper."

MR. TAYLOR said that all he could say was that the tablets were coated by a gentleman skilled in the job of sugar-coating. He seemed to have done his job satisfactorily. He was satisfied that the method of determination of moisture was satisfactory. He did not think that determination of the moisture content of the whole tablet "would tell us anything at all." In spite of the popularity of oral liquid preparations there was a swing back in favour of soluble penicillin tablets. Tablets were usually administered every four hours so that the blood level after that period did not matter.

### AUTHORS OF SCIENCE PAPERS

MR. L. SAUNDERS, B.Sc., Ph.D., F.R.I.C., author of a paper on de-mineralised water for pharmaceutical purposes, was appointed to his present post of senior lecturer in physical chemistry at the School of Pharmacy, University of London, in 1949. His scientific interests include the correlation of

the surface chemistry of the lecithins with biological adsorption, and the application of ion exchange resins to pharmaceutical chemistry. He obtained his B.Sc. degree of the University of London in 1947 and his Ph.D. in 1940, after carrying out research work in physical chemistry.



## British Pharmaceutical Conference, Oxford, 1954

**MR. FREDERICK WILLIAM ASHBY, M.P.S.**, who is the co-author of a paper on the stability of sugar-coated penicillin tablets, qualified as a chemist and druggist in 1938 and, after experience as a branch manager in retail pharmacy, he joined the staff of Glaxo Laboratories, Ltd., in 1946 as a technical assistant in the tablet department of which he was appointed head in 1950.



**MR. ARNOLD AXON, M.S. (Wisconsin), B.Pharm., F.P.S.**, who is the author of a paper dealing with the effect of bentonite on heated emulsions, is a member of the development staff of Burroughs Wellcome & Co., Dartford, Kent. He served his apprenticeship with William Blain & Sons, Ltd., Bolton, Lancs, and obtained the London B.Pharm. degree and passed the Pharmaceutical Chemist qualifying examination from Nottingham University. He obtained industrial experience in the pharmaceutical development laboratories of W. & B. West, Ltd., Liverpool, and later, of Calmic, Ltd., Crewe, before joining Burroughs Wellcome & Co. In 1950-52, following an award by the Ministry of Education under the Marshall Aid Plan, he spent two years in the United States, where he obtained a Master's degree at The University of Wisconsin.

**MR. A. F. S. A. HABEEB, Ph.D.**, who is the co-author of a paper on the entrainment of liquid during distillation, obtained the degree of B.Pharm. (Cairo) in 1948 and was appointed a demonstrator in the department of pharmacology, Faculty of Medicine, Cairo. In 1951 he began research work in the department of pharmaceutics, school of pharmacy, London University, for the degree of Ph.D. which he obtained in June 1954. He is taking up an appointment as lecturer at Cairo University.



**MR. E. SHOTTON, B.Sc., F.P.S., F.R.I.C.**, who is co-author of a paper on entrainment of water during distillation, is senior lecturer in pharmaceutics at the School of Pharmacy, University of London. Mr. Shotton was a student in the pharmacy department of the Central Technical College, Birmingham, 1930-32,



subsequently passing the Pharmaceutical Chemist examination. After two years in retail pharmacy he joined the staff of the College of the Pharmaceutical Society as a demonstrator and in 1939 graduated as B.Sc. with first-class honours in chemistry. From 1939 to 1947 he worked in the pharmaceutical development laboratories of Burroughs Wellcome & Co., eventually taking charge of those laboratories. At the beginning of 1948 he returned to the Pharmaceutical Society College (now the School of Pharmacy, London University) as senior lecturer in pharmaceutics.

**MR. JOHN ISAACS, B.Sc., A.R.I.C.**, co-author of a paper on photometric determination of quaternary ammonium salts, is engaged in analytical research in the analytical control division of May & Baker, Ltd., Dagenham, Essex. He graduated B.Sc. in chemistry with special second-class honours from the Northern Polytechnic, London, in 1950. In 1951 he was elected an associate of the Royal Institute of Chemistry. He joined the staff of May & Baker, Ltd., in 1951.



**MR. F. TAYLOR**, who is the co-author of a paper on the stability of sugar-coated penicillin tablets, is head of the pharmacy unit, research and development laboratories, Glaxo Laboratories, Ltd. He served a four-year apprenticeship in retail pharmacy with Latewards, Ltd., Manchester, and took the combined degree and Pharmaceutical Chemist diploma course at Manchester Univer-

sity, 1937-40, graduating B.Sc. (Pharmacy). In January 1943 he joined the staff of the pharmaceutical development laboratories of Burroughs Wellcome & Co. at the Wellcome Chemical Works, Dartford, Kent. In February 1948 he was appointed head of the pharmaceutical development laboratories and continued in that position for the next five years until in December 1952 he accepted his present post.

**MR. FRANCIS FISH, B.Pharm., F.P.S.**, who is the co-author of a paper on the ageing of digitalis tinctures, is a lecturer in the school of pharmacy, Royal Technical College, Glasgow. As an external student of London University, he studied at Sunderland Technical College, graduating in 1946. In September 1946 he joined the staff of the Royal Technical College, Glasgow, as an assistant lecturer in pharmacognosy, and was appointed to his present post in 1948.



**MR. C. KNIGHT**, who is the co-author of a paper on the assay of benzathine penicillin, is employed in the chemical division of the standards laboratory at Boots Pure Drug Co., Ltd., Nottingham. He was a part-time student at Nottingham University until 1940. After army service during the 1939-45 war, he resumed part-time study at Nottingham Technical College, and hopes to complete his examinations for the associateship of the Royal Institute of Chemistry in 1955.



**MR. H. D. FITCH, M.P.S.**, who contributed a paper on the dispensing aspects of tablets in the Symposium Session is a retail pharmacist, having his own business in Camberley, Surrey. He served an apprenticeship in Huntingdon and studied at the school of pharmacy, Bloomsbury Square, qualifying as a chemist and druggist in 1934.



## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, OCTOBER 27: With the continuing dock strike home buyers in the CRUDE DRUG and ESSENTIAL OIL markets restricted their purchases to items urgently needed for processes in hand. There was, however, a little more interest in offers for shipment of a number of commodities. The labour position at the main London warehouses was reported to have improved considerably.

World demand for Cape ALOES is still greater than available supplies; no offers for shipment were received although there were indications that a bid in the region of 235s. per cwt., c.i.f., might be accepted. Meanwhile a small parcel of extra-prime on the spot was offered at 250s. Curaçao aloes were dearer by 10s. a cwt. Far-Eastern material continued to rise on the spot with CAMPHOR POWDER, B.P., and AGAR, sixpence per lb. dearer and MENTHOL, 2s. higher. Jamaican SARSAPARILLA was also higher in view of the scarcity of supplies both here and at origin. Reports from the Sudan indicate that the season has been a good one so far for GUM ACACIA, but it is too early yet to make an estimate of the new crop. Sumatra BENZOIN and Indian SHELLAC were somewhat firmer.

In PHARMACEUTICAL CHEMICALS the schedule for THEOBROMINE was increased, the ALKALOID being marked up by 3s. per lb. Although the new prices were dated to come into force from October 23 levels approaching them had been operating in some quarters for the past month. PENICILLIN and STREPTOMYCIN are being reduced on November 1 (see p. 456). The last reduction in those antibiotics took place seven months ago. The continued scarcity of COCHINEAL has caused another increase in the price of CARMINE.

In ESSENTIAL OILS, LEMONGRASS dropped 2s. per lb. and Madagascar CLOVE-LEAF by sixpence. Otherwise all changes were in an upward direction and included the following: ANISE (up sixpence); BOIS DE ROSE (4s.); Ceylon CITRONELLA (sixpence); Bourbon GERANIUM (7s. 6d.); and Chinese PEPPERMINT (4s.). East Indian PALMAROSA was one-shilling per lb. dearer for shipment.

### Pharmaceutical Chemicals

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 61s. 6d.

AMPHETAMINE.—Prices (per kilo) for 25-kilo lots are as follows:—BASE, 160s.; SULPHATE, 130s.; *d*-Amphetamine, 550s.

BENZAMINE.—LACTATE is 53s. per 100 gm. and 247s. per 500 gm. HYDROCHLORIDE is 56s. 6d. for 100 gm. and 264s. 6d. for 500 gm.

BORIC ACID.—Prices for B.P. grade in quantities of 1-ton and upwards are as follows:—Granular, £80; crystal, £87; powder, £84 10s.; extra-fine powder, £86 10s. per ton, in 1-cwt. bags carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5-cwt., 1s. per cwt.; 3-cwt., 2s.; 1-cwt., 3s.

BROMIDES.—Potassium B.P. crystals in 5-cwt. lots are 2s. 10½d. per lb.; 1-cwt., 2s. 11½d. per lb. Powder is 1½d. per lb. more. AMMONIUM is 3s. per lb. in 5-cwt. lots and SODIUM, 2s. 9½d. per lb.

CARMINE.—1-cwt. lots are now about 110s. to 115s. per lb., nominal.

DIPHENYL.—Prices range from 58s. to 67s. per lb., according to quantity.

FORMALDEHYDE.—B.P. solution is 36s. 3d. per cwt. for original 4-cwt. drums. Drums charged extra and returnable.

GUAIACOLS.—LIQUID, B.P., is 16s. 3d. per lb. for 28-lb. lots; CRYSTALS, 16s. 9d.; CARBONATE, 18s. 3d.

HYDRAZINE HYDRATE.—Price per ton is £153 for the 10 per cent. (w/v) solution and £33 for the 2½ per cent.

HYDROGEN PEROXIDE.—Manufacturers' price for single carboys of 20 volumes is 4s. 6d. per gall.

MANDELIC ACID.—1-cwt. lots in 28-lb. containers are 10s. 9d. per lb. The CALCIUM SALT is also 10s. 9d. while SODIUM is 11s. 3d. per lb. for 1-cwt. lots.

PHENACETIN.—In 5-cwt. lots makers' price is now 6s. 8d. per lb., 1-cwt., 6s. 9d.

PHENOPHTHALEIN.—Rate for 1-cwt. lots is 10s. 10d. per lb.

PHENYTOIN SODIUM.—Quotations for 1-cwt. lots are 25s. per lb.

PILOCARPINE.—In 100-oz. (or 2½ kilo) lots prices are: HYDROCHLORIDE, 42s. 6d. per oz. (1,428s. 6d. per kilo); NITRATE, 38s. per oz. (1,340s. per kilo).

POTASH, SULPHURATED.—B.P.C. lump is 2s. 3d. per lb. for 1-cwt. lots.

POTASSIUM BICARBONATE.—B.P. powder is 130s. per cwt.

POTASSIUM BROMATE.—In 5-cwt. lots 7s. per lb. In small quantities the prices range up to 8s. 9d. per lb.

POTASSIUM CHLORIDE.—In 1-cwt. lots B.P. is 1s. 6d. per lb.

POTASSIUM HYDROXIDE.—B.P. sticks are from 6s. 6d. per lb.

POTASSIUM NITRATE.—Pharmacopoeial quality is 145s. per cwt. (crystal, granular or powder) and commercial, 90s.

PYROGALLIC ACID.—Pure crystals are 18s. per lb. in 1-cwt. lots.

QUINIDINE.—Prices (per oz.) for minimum 100-oz. lots in the home market are: ALKALOID, 8s. 9d.; SULPHATE, 6s. 7d. Extra charges for small lots.

SALOL.—Quotations for B.P.C. are about 9s. per lb. for 1-cwt. lots.

SODIUM SALICYLATE.—Rates are: 1-ton lots in bulk, 3s. 5d. per lb.; 5-cwt., 3s. 5½d.; 1-cwt., 3s. 6d.

SODIUM SULPHITE.—1-ton lots of ANHYDROUS (48-50 per cent.) are £62 per ton in 1-cwt. drums; CRYSTALS, B.P.C., £38 17s. 6d. in kegs and £30 12s. 6d. in paper-lined bags.

SODIUM THIOSULPHATE.—Makers' price for 1-ton lots in paper-lined bags is £34 per ton.

SULPHACETAMIDE.—Quotations (per lb.) for 1-cwt. lots are 24s. 6d. The SODIUM DERIVATIVE is 30s.

SULPHAGUANIDINE.—Price per kilo for 50-kilos is 34s. 3d.

SULPHUR.—B.P. PRECIPITATED is £105 per ton, or £110 per ton for 1-cwt. lots.

THEOBROMINE.—Dearer. ALKALOID is now 35s. 6d. per lb. and the SODIUM SALICYLATE, 21s. 9d. for 1-cwt. lots.

### Solvents

ACETALDEHYDE.—The 100 per cent. is 145s. per cwt. for drum lots.

ACETATES.—Prices (per cwt.) for drum lots are as follows:—AMYL (technical), 240s. and (B.S. 552: 1950), 242s.; BUTYL (B.S. 551: 1950), 186s.; ETHYL (B.S. 553: 1950), 156s.

ACETONE.—Drum lots are quoted at £94 per ton.

AMYL ALCOHOL.—Technical grade is £237 per ton.

BENZENE.—Thiophene-free is 9. 0½d. per gall. in 50-gall. barrels and pure, 6s. 0½d. per gall.

BUTYL ALCOHOL (B.S. 508: 1950)—1-ton lots are quoted at £163 10s. per ton and drums at £166 10s. per ton.

CARBON TETRACHLORIDE, B.P.—1-2 carboy lots are £124 per ton. TECHNICAL, in 40-gall. drums, in less than 1-ton lots, is £78 per ton; 1 ton and under 2 tons, £76 10s.; 2 tons and under 4 tons, £76; 4 tons and upwards, £75.

DIMETHYL ACETATE.—Drum lots are quoted at 163s. per cwt.

ISOPROPYL ALCOHOL.—Standard grade is £80 10s. per ton (5s. 7½d. per gall.) in 10-ton lots. Essence grade is from 16s. 3d. to 19s. per gall., as to quantity.

PHTHALATES.—Prices (per lb.) for drum lots are as follows:—DIAMYL, 3s.; DIBUTYL, 2s. 1½d.; DI-ISO-BUTYL, 1s. 11½d.; DIETHYL (normal grade), 1s. 11½d.; DIMETHYL, 1s. 8½d.

### Crude Drugs

ACONITE.—Spot supplies of Spanish napelus have been cleared. Nominal value 3s. 9d. per lb., duty paid.

AGAR.—*Kobé* No. 1 on the spot is from 17s. per lb., duty paid. Shipment, 14s. 6d., c.i.f. January-February 1955 (new-crop).

ALOES.—Cape: A parcel of extra-prime was offered at 250s. per cwt. on the spot; forward indication, 235s.; c.i.f., no firm offers, Curaçao is dearer at 300s. per cwt. on the spot, and 290s., c.i.f.

ANISEED.—Chinese star is scarce on the spot at 190s. per cwt., in bond; shipment, 155s., c.i.f.

ANTIMONY.—English 99.6 per cent., £222 10s.; 99 per cent., £210 per ton.

ARECA NUTS.—Quotations are about 45s. per cwt. for Ceylon material on the spot. Shipment, 42s. 6d., c.i.f.

ASAFETIDA.—Persian block is from £10 to £14 per cwt., duty paid, as to quality.

BALSAMS.—Quotations (per lb.) are:—Canada: 20s. spot. *Copaiba*, B.P., 11s. 6d. *Peru* is 11s., duty paid; no offers from origin. *Tolu* (genuine as imported) 26s. 6d. spot, and 26s. c.i.f.

BENZOIN.—Sumatra block on the spot is firmer at from £27 10s. to £31 per cwt.

BISMUTH METAL.—Minimum rate is 16s. per lb.

CAPSICUMS.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk, 205s., spot, duty paid.

CARDAMOMS.—Aleppy greens are cleared on the spot. October-November shipment offers are 11s. 9d. per lb., c.i.f.

CASCARA SAGRADA.—Quiet. American new-crop peel for shipment is 215s. per cwt., c.i.f., London.

CASSIA BARK.—Whole on the spot is about 90s. per cwt., in bond, and for forward delivery, 75s., c.i.f. Broken 78s., in bond, and 66s., c.i.f.

**COCHINEAL.**—Very short on spot and no shipment offers. Black-brilliant is 15s. per lb.

**GALANGAL.**—Root is quoted at 75s. per cwt., c.i.f., for shipment, and spot, 85s.

**GENTIAN.**—French natural on spot is 107s. 6d. per cwt.

**GINGER.**—African is firm on the spot at 240s. per cwt. with shipment offers difficult to obtain at 230s., c.i.f. Jamaican No. 3 is offered at 250s. on the spot.

**IPECACUANHA.**—Nominal shipment values (per lb., c.i.f.): Nicaraguan, 61s. 6d.; Colombian, 56s.; Spot Colombian, 60s.

**JALAP ROOT.**—Vera Cruz untested material is offered at 4s. 3d. per lb. Short at origin.

**KARAYA.**—No. 1 gum on the spot is quoted at 265s. per cwt., and 235s. for shipment, and No. 2 at 175s. and 160s., c.i.f.

**KOLA NUT.**—African halves are available on the spot at 5s. per lb.

**LANOLIN.**—In 1-ton lots the price of ANHYDROUS, B.P., is about 200s. per cwt. and HYDROUS, B.P., 145s.

**LIQUORICE.**—Natural whole root, spot: Anatolian, 60s. per cwt.; Russian, 40s.; Syrian, 35s.; Persian, 37s. 6d. Block juice quotations are 220s. per cwt. on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

**MACE.**—West Indian pale blade is 9s. per lb.; for shipment, 8s. 4d. c.i.f.

**MENTHOL.**—Chinese is again dearer at 42s. per lb., duty paid and 40s. c.i.f.

**MERCURY.**—Nominal spot value is £110 per flask of 76-lb. ex-warehouse.

**PEPPER.**—Spot position firm but shipment inclined to ease. White Sarawak is at 4s. 9d. to 5s. per lb., spot, with afloat parcels quoted at 4s. 5d. to 4s. 6d. c.i.f. Black Sarawak is 3s. 9d. to 4s. spot; afloat 3s. 4d. to 3s. 6d. c.i.f. Black Malabar is nominal at 610s. per cwt. with October shipment lower at 400s., c.i.f.

**PIMENTO.**—Spot is 7s. 3d. per lb. and October shipment, 400s. per cwt., c.i.f., both nominal.

**PODOPHYLLUM.**—*Peltatum* is 336s. per cwt. on the spot. *Emodi*, afloat, 160s., no spot supplies.

**QUASSIA.**—Spot quotations for chips are about 45s.

**RHUBARB.**—Spot offers of Chinese are from 8s. 3d. per lb. upwards for fair to good quality. Shipment from 7s. 3d., c.i.f.

**SAFFRON.**—Steady. Offers for Mancha are about 150s. per lb.

**SANDARAC.**—Morocco is 12s. 9d. per lb. spot, nominal.

**SARSAPARILLA.**—Jamaican native red on the spot is scarce at 3s. 3d. to 3s. 6d. per lb. No shipment offers.

**SASSAFRAS BARK.**—Select round offered at 6s. 3d. and natural at 4s. 3d. per lb., landed terms.

**SEEDS.**—(Per cwt.) **ANISE.**—Cyprian nominal at 185s., spot. **CARAWAY.**—Dutch has been sold at 167s. 6d., duty paid.

**CELERY.**—Indian offering at 160s., on spot with no business passing.

**CORIANDER.**—Firm, Spot, Morocco is 80s. duty paid and Danubian, 60s., duty paid. Morocco for shipment is offered at 67s. 6d. c.i.f., with business reported.

**CUMIN.**—Steady. Spot, Cyprian is 125s. with small business passing and Morocco, 127s. 6d., duty paid.

**DILL.**—Indian is unobtainable; 90s. quoted nominal. **FENNEL.**—Indian continues quiet with sellers at 90s., spot.

**FENUGREEK.**—Market firm. Morocco on spot, 52s. 6d., duty paid. For shipment business reported at 43s., c.i.f. **MUSTARD.**—English is firm; 85s. to 97s. 6d. quoted, according to quality.

**SERPENTARIA.**—Root is offered at 37s. per lb. on the spot.

**SHELLAC.**—Spot quotations are: F.O.T.N. pure, 350s.; F.O. standard No. 1, 365s., nominal; fine orange, 385s. to 415s. per cwt. ex-London warehouse.

**SQUILL.**—Italian on the spot is 7s. per cwt.; value of new-crop for shipment, 70s. c.i.f.

**STRAMONIUM.**—Indian LEAVES are 75s. per cwt., spot. Stocks of European are cleared on the spot.

**STROPHANTHUS.**—*Kombé* is 7s. 6d. per lb. on the spot.

**STYRAX.**—Spot is 5s. 7d. per lb., duty paid.

**TAMARINDS.**—Supplies of West Indian are offered at 50s. per cwt., duty paid.

**TONKA BEANS.**—Frosted Para on the spot are offered at 6s. per lb.

**TURMERIC.**—Madras finger quoted nominally at 200s. per cwt. spot with forward offers at the same level.

**UVA URSI.**—Spot offers are about 85s. per cwt.

**VANILLIN.**—Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

**WAXES.**—**BEES'**—Dar-es-Salaam, spot 510s. per cwt., with October-November shipment, 485s., c.i.f.; Sudanese, 480s. duty paid and 435s., c.i.f.; Abyssinian, spot, 487s. 6d., duty paid, and shipment, 435s., c.i.f. Benguela, 440s., c.i.f. prompt shipment. **CANDELILLA.**—Spot is 570s. per cwt. forward, 570s., c.i.f. **CARNAUBA.**—Prime yellow on the spot is 900s. per cwt., shipment, 840s., c.i.f.; fatty grey is 590s. on the spot; shipment, 565s., c.i.f.

**MONTAN.**—Reibeck, crude, 115s. per cwt., spot. **SPERMACETI.**—Case lots are about 2s. per lb.

### Essential and Expressed Oils

**ANISE.**—Spot supplies are dearer at 18s. per lb., with afloat also quoted at 17s. 6d. c.i.f.

**BAY.**—West Indian is 11s. per lb. on the spot.

**BIRCH TAR.**—Rectified is about 14s. per lb. in 1-cwt. lots.

**BOIS DE ROSE.**—Brazilian on the spot is 35s. and 33s., c.i.f., December shipment.

**CADE.**—Spanish is about 2s. 3d. per lb. on the spot for 1-cwt. lots.

**CEDARWOOD.**—Spot quotations for rectified are now 7s. per lb. with Atlas at 5s.

**CITRONELLA.**—Prices (per lb.) include Ceylon firmer at 9s. 6d. on the spot and 9s., c.i.f., October-November shipment; Formosan, 11s. 6d., c.i.f. and 11s. 6d. in bond; Java, 13s. 6d., duty paid and 11s. 9d., c.i.f.

**CLOVE.**—Madagascar leaf is 13s. 6d. per lb., duty paid and 11s. 6d., c.i.f., for shipment. Redistilled stem oil from 19s., and English distilled bud oil from 45s.

**GERANIUM.**—Bourbon is 80s. per lb. on the spot.

**JUNIPER BERRY.**—Imported oils are offered at 17s. 6d. per lb., duty paid. English-distilled is offered at 75s. to 80s. per lb.

**LAVANDIN.**—Spot values are quoted at around 20s. per lb.

**LAVENDER.**—Scarce. 38-40 per cent. linalol on the spot is 90s. to 100s. per lb. nominal.

**LAVENDER SPIKE.**—Spanish is about 12s. per lb., c.i.f., with spot quotations nominal at 13s. to 14s.

**LEMON.**—B.P. (4 per cent. citral) on the spot is 38s. to 39s. per lb. Californian, 35s. 3d. to 52s. 3d. c.i.f., as to quality, subject to licence.

**LEMONGRASS.**—Easier. Spot offers have fallen to 20s. per lb.; October-November shipment, 18s. 6d., c.i.f.

**LIME.**—Supplies of West Indian distilled are offered from 40s. to 42s. per lb. on the spot.

**NUTMEG.**—English-distilled oil is 35s. per lb. Imported oil is offered at 24s. per lb., duty paid for drum lots.

**ORANGE.**—Spot offers for sweet vary between 7s. 6d. and 8s. 6d. per lb. as to quality. Bitter orange, 24s. spot. Californian sweet, 6s., c.i.f., and cold-pressed U.S.P., 9s. 9d., c.i.f. subject to licence.

**OTTO OF ROSE.**—Spot offers are in the region of 150s. per oz.

**PALMAROSA.**—East Indian is 62s. per lb., on the spot, and 59s. 6d., c.i.f., for shipment.

**PATCHOULI.**—Penang is 60s. per lb., duty paid.

**PEPPERMINT.**—*Arvensis*: Chinese is 34s. per lb., spot and 33s., c.i.f. Brazilian, 27s., spot and 25s. 6d., c.i.f. Italian "Mitcham" type oil is from 60s. to 65s. per lb. on the spot. American, spot 60s.; shipment offers withdrawn.

**OLIVE.**—Spanish virgin and pharmaceutical oils (B.P.) are offered on the basis of £214 5s. per 1,000 kilos, f.o.b., Spanish ports for prompt shipment. Equivalent landed terms ex-wharf London/Liverpool approximately 21s. per gall. for minimum 1-ton lots (5 x 48-gall. drums). French virgin (maximum acidity, 1 per cent.) at £225 and B.P., £220 per 1,000 kilos, c. and f. (equivalent to 19s. 9d. and 19s. 6d. per gall. spot).

**ORIGANUM.**—In original containers the price is 13s. to 14s. per lb.

**ROSEMARY.**—Spanish oil on the spot is about 5s. 6d. per lb., duty paid, for B.P. quality.

**RUE.**—Spot offers are from 12s. 6d. per lb.

**SAGE.**—Spanish is offered at from 9s. per lb. and Dalmatian at 50s., duty paid.

**SANDALWOOD.**—Mysore is from 65s. per lb. as to quantity; East Indian, 62s. 6d. **SASSAFRAS.**—Brazilian on the spot is 8s. per lb.

**SPEARMINT.**—Offers of U.S.P. quality at 37s. 6d. per lb. on the spot.

**THYME.**—B.P.C. is about 9s. 6d. per lb.

**TITREE.**—Spot supplies are offered at 14s. per lb.

**VETIVERT.**—Bourbon in original drums on the spot is 90s. per lb.

### UNITED STATES REPORT

**NEW YORK, OCTOBER 26:** Among CRUDE DRUGS, a firm price situation appears to be developing in BALSAMS, SERPENTINA, IPECACUANHA, PAPAIN and CHAMOMILE FLOWERS. Firmness generally prevailed in ESSENTIAL OILS, with BAY at \$1.75 (up 10 cents); EUCALYPTUS, 90 cents (5 cents); GINGER, \$12.50 (50 cents); LEMONGRASS, \$2.50 (25 cents); SANDALWOOD, \$11.00 (75 cents). Demand for SPEARMINT improved in sympathy with the firm price position in PEPPERMINT. LAVENDER OIL prices rose as high as \$14 per lb., reflecting the tightness of offerings, which is attributed to reports that this year's lavender crop is likely to be 40 per cent. below the 1953 level. Oil JASMIN prices stiffened following reports of short crops in France and Italy. PATCHOULI, on the other hand, remained available on the spot at values under current replacement costs, reflecting earlier purchases at cheaper prices.

# C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; \*=Tax 25 per cent.; †=Tax 75 per cent.

**BOOTS PURE DRUG CO., LTD.** (from November 1)  
I.R.P.  
Penicillin G crystalline, sodium, potassium, and procaine salts:

0-1 mega unit	1 0 R
0-2 mega unit	1 1½ R
0-5 mega unit	1 6 R
1-0 mega unit	2 3 R
5-0 mega units	8 9 R

10-0 mega units

Pro-stabillin oily, 0-3 mega unit per c.c., 10-c.c. vial  
Pro-stabillin, 3 mega unit in 10-c.c. vial

Bi-stabillin, vial containing 0-3 mega unit procaine penicillin G with 0-1 mega unit crystalline sodium penicillin G  
box of 10  
vial containing 0-9 mega unit procaine penicillin G with 0-3 mega unit of crystalline sodium penicillin G

box of 10

Vials of procaine penicillin G:

Pro-stabillin oily, 0-3

mega unit, box of 6

box of 100

0-6 mega unit, box of 6

box of 100

0-9 mega unit, box of 6

box of 100

Pro-stabillin A.S. 0-3

mega unit, box of 6

box of 100

0-6 mega unit, box of 6

box of 100

0-9 mega unit, box of 6

box of 100

**THE BRITISH DRUG HOUSES, LTD.** (from November 1)

Penicillin oral tablets

200,000 units

100

500,000 units

100

Radiomalt

2 lb.

**CELLUCOTTON PRODUCTS, LTD.** (retail from January 1; wholesale from November 1)

Kotex sanitary towels

7 11

16 7

0 10 R

1 9 R

**THE DISTILLERS CO. (BIOCHEMICALS), LTD.**, on behalf of ALLEN & HANBURYS, LTD.; THE BRITISH DRUG HOUSES, LTD.; BURROUGHS WELLCOME & CO.; EVANS MEDICAL SUPPLIES, LTD.; IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD.; and PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD. (from November 1)

Penicillin G, sodium and potassium salt (buffered)

0-5 mega-unit vial

5

1-mega-unit-vial

2 3 R

5 mega units

10 mega units

Distaqueine G

0-3 mega-unit vial

5

0-9 mega-unit vial

2 6 R

3 mega-unit vial

12 6 R

7 0 R

70 0 R

Distaqueine fortified,

0-4 mega-unit vial

5

1-2 mega-unit vial

3 3 R

4 mega-unit vial

8 9 R

87 6 R

Distaqueine suspension,

10 mil (3 mega units)

box of 10

30 mil (9 mega units) (veterinary).

Distavone vial

box of 5

Streptomycin and dihydrostreptomycin sulphates and Mixtamyacin

1 mega unit

box of 5

5 mega units

1 mega unit

2 10½ R

box of 5

5 mega units

11 10½ R

box of 10

118 9 R

Applications from the retail and wholesale trade for credit on stocks held at closing time on October 30 should be made within fourteen days to the supplier by whom the goods were invoiced quoting batch numbers.

**GLAXO LABORATORIES, LTD.** (from November 1)

Each Benapen, 300,000 units per c.c. Vial of 10 x 1 c.c. doses

6 6 9 9 R

Crystopen, 500,000-unit vial

10 10 15 0 R

1-mega-unit vial

15 0 22 6 R

2 mega units

2 6 3 9 R

5 mega units

5 10 8 9 R

Estopen, 500,000-unit vial

10 15 0 22 6 R

100,000-unit vial

10 7 6 11 3 R

Scelopen, 400,000 units per 1-c.c. dose, single-dose vial

10 10 16 3 R

5-dose vial

3 3 4 10½ R

Mylipen, 300,000 units per 1-c.c. dose, 10-dose vial

5 5 8 11½ R

Prolopen, 400,000 units per 1-c.c. dose, 10-dose vial

6 10 10 3 R

Procaine penicillin G oily injection, 300,000 units per 1-c.c. dose, 10-dose vial

5 5 8 11½ R

Crystopen oral tablets, coated and uncoated, 200,000 units

12 2 4 3 R

100

18 10 28 3 R

500

90 2 135 3 R

400,000 units

12 4 11 7 4½ R

Crystamycin 10 vials

177 8 266 6 R

Estomycin, 500,000 units

20 10 31 3 R

penicillin with 1 gm. streptomycin

10 vials

100,000 units penicillin with 0-2 gm. streptomycin

10 vials

Seclomycin 10 vials

Dimycin, streptomycin calcium chloride, dihydrostreptomycin sulphate, streptomycin sulphate

1-gm. vial

19 2 28 9 R

5-gm. vial

7 11 11 10½ R

Stabilised injection of dimycin 1-gm. vial

10

11 10½ R

Stabilised injection of streptomycin sulphate, 1 gm. in 2 c.c. and 1 gm. in 3 c.c. 1-gm. vial

19 2 28 9 R

5-gm. vial

7 11 11 10½ R

Veterinary Mylipen 30 c.c. vial

14 10 22 3 R

Streptopen uterine tablets

6

10 0 15 0 R

Streptovex 8 oz.

10 0 15 0 R

F. W. HAMPSHIRE & CO., LTD.

Snowfire series:- vanishing cream

0 9 A

1 5 A

2 4 A

face powder†

9 A

cold cream†

1 5 A

2 4 A

lipstick†

1 0 A

1 6 A

**ELI LILLY & CO., LTD.** (from November 1)

Duracillin A.S. ampoules, 1 c.c.

10 c.c. 2 3 R

Applications from retail pharmacists for credit on stocks held at closing time on October 30, should quote batch numbers, and should be made direct to Eli Lilly & Co., Ltd., within fourteen days.

**RACASAN, LTD.** (from November 1)

Toilet tissue 10½ R

**P.A.T.A. PROTECTED LIST**

(Prices notified this week by the Proprietary Articles Trade Association.)

ADDITIONS TO PROTECTED LIST

**HORLICKS, LTD.**

Adrenoxyt ampoules\* 6 28 0 49 0

50 200 0 350 0

tablets, 25 7 0 12 3

500 126 8 221 8

Becantyl\* 4 oz. 28 0 4 1

40 oz. 20 0

80 oz. 36 8

Becaptan ampoules\* 6 66 8 116 8

50 500 0 875 0

STEMCO, LTD. (from November 1)

Mistol drops (with or without ephedrine) Doz.

17 0 2 6 A

2 oz. 26 0 3 9½ A

## NEW PRODUCTS AND PACKS BURROUGHS WELLCOME & CO.

Lergine compound tablets\*

100 500

23 2

100 11½

W. B. CARTWRIGHT, LTD.

Vitafort capsules 30

5 0

60

9 0

D. & W. GIBBS, LTD.

Sunsilk shampoo (Christmas pack)\*

6 3

MENLEY & JAMES, LTD.

Spanulse phenobarbitone capsules

gr. 1 30

53 3

gr. 1½ 30

59 3

6 7

PEPSODENT, LTD.

Tooth-brush

2 3

RADIOL CHEMICALS, LTD.

Dispensing packs:-

Radian B

16 oz.

8 0

80 oz.

37 6

Radian A

16 oz.

20 0

32 oz.

38 0

massage cream

32 oz.

14 6

A. L. SIMPKIN & CO., LTD.

Glucose barley sugar

2 3

## TRADE MARKS

### APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," October 6  
For pharmaceutical preparations and substitutes (S)

ACTONORM, 731,317, by Wallace Manufacturing Chemists, Ltd., London, N.W.3. [Corrected note.]

CALCENE, B726,228, by Columbia-Southern Chemical Corporation, Pennsylvania, U.S.A.

For chemical products used in industry, photography and science, synthetic resin plastics included in class I and adhesives for industrial purposes (I)

BRULON, B729,234, by Imperial Chemical Industries, Ltd., London, S.W.1.

For chemical substances included in class I for the preservation and rot-proofing of fibrous material and of rope, cordage, twine and the like (I)

PRIMULSIM, 730,973, by Arthur J. Dickinson, Ltd., London, S.E.8.

For foamed urea formaldehyde in blocks and in powdered form for industrial purposes and for use as a moisture retaining medium (I)

SNOWLITE, 732,450, by City Plastics, Ltd., London, E.C.3.

For cosmetic preparations (not being toilet preparations) (3)

CETIOL, 720,237, by Dehydag-Deutsche Hydrierwerke, G.m.b.H., Dusseldorf, Germany.

For non-medicated toilet preparations (3)

BLUE PEARL, 729,385, by H. McMinn & Sons, Ltd., Sheffield, L1QUINET, 729,809, by Bostwick Laboratories, Ltd., London, W.1.

TWEENY TWINK, 732,499, by Pin-up Cold Wave, Ltd., Middlesex.

For all goods (3)

ULAY, 731,111, by Adams National Industries, Durban, Natal, South Africa.

For abrasive products included in class 3 (3)

PHEN-O-FLEX, 732,025, by the Helvetica Abrasives Co., Ltd., Thurcaston, nr, Leicester.

For soaps (3)

SAFODIK, 732,884, by Safodik (Great Britain), Ltd., Leeds.

For fungicides (5)

NICETIN, 730,113, by Parke, Davis & Co., Michigan, U.S.A.

For hormones and hormone preparations, all for pharmaceutical use (5)

HYDROCORTONE, 730,276, by Merck & Co., Inc., New Jersey, U.S.A.

For countless thousands

Since B.D.H. introduced its first products of steroid research in 1933 the substances have been the subject of continuous study in the B.D.H. Research Laboratories. Today, countless thousands of people are assisted through the critical phases of life by

### B.D.H. Sex Hormones

the comprehensive range covers the field in this branch of medicine.

'MEPILIN'  
combined androgen-oestrogen

DIENESTROSTROL B.D.H.

TESTOSTERONE PROPIONATE B.D.H.

ETHISTERONE B.D.H.

'ESTIGYN'  
Ethinyl Oestradiol B.D.H.

STILBOESTROL B.D.H.

METHYLTESTOSTERONE B.D.H.

'GONAN'

'OESTROFORM'  
HEXOESTROL B.D.H.  
PROGESTIN B.D.H.  
'SEROGAN'

THE BRITISH DRUG HOUSES LTD., LONDON N.1

SHOT/T/541

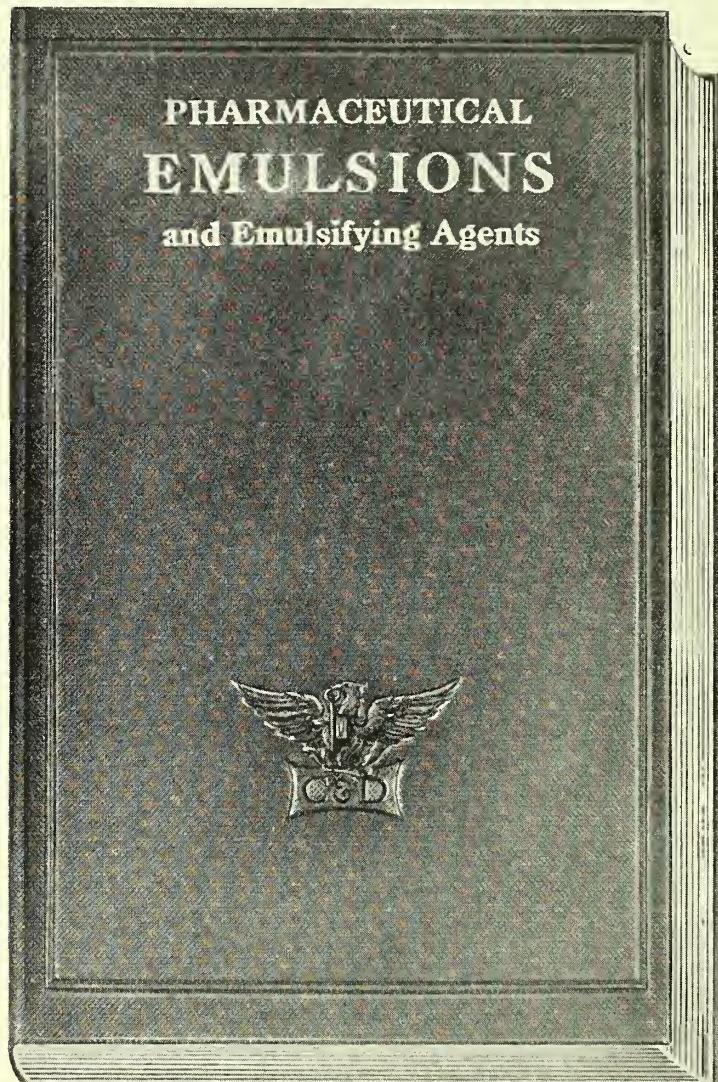
*A Revised  
and  
Improved  
Edition . . .*

*By L. M. Spalton,  
B.Pharm., M.P.S.*

*Now Bound in cloth and  
fully indexed*

*Every Pharmacist should possess a copy*

**7/6** Postage 4d.



TODAY, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment. In this book the considerable range of these products has been classified, together with essential practical points about their pharmaceutical use. It contains chapters devoted to the theory of the formation of emulsions, properties of different emulsifying agents (classified into groups according to their structure and characteristics), the formulation and preparation of emulsions, the general methods of preparing emulsions with details of technique and causes of emulsion separation, preservation and storage of emulsion, etc. The practical uses of emulsifiers are dealt with at considerable length, together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters. The book also contains a classified index of over 300 emulsifying agents with reference to their composition, type and uses, together with an index of manufacturers.

*Order through your bookseller or direct from the Publisher:—*

*The*  
**CHEMIST AND DRUGGIST**

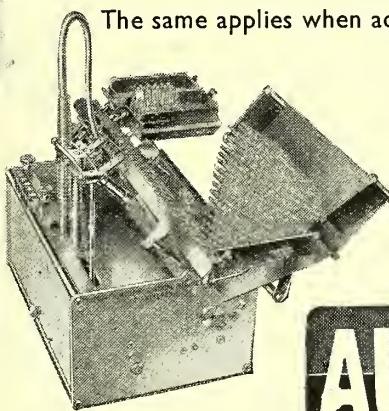
28 ESSEX STREET, STRAND, LONDON, W.C.2



## But you can't give real service at the end of a telephone

Autopack machinery rarely gives cause for complaint, but if some snag should arise — contact us immediately. Whilst sometimes a telephone diagnosis will clear the difficulty, we believe in leaving nothing to chance. To make certain we will always send a service engineer to make a personal check.

The same applies when advice on the choice of machinery is required. A qualified representative will call and give on-the-spot help. Remember the Autopack range of weighing and packaging machinery covers practically all requirements in the industry.



The "Auto Ampack" ampoule filling and sealing machine inserts the exact quantity of liquid into the ampoule and heat seals it. Speed, up to 35 per minute. Completely automatic. Leaflet 27 gives full details.

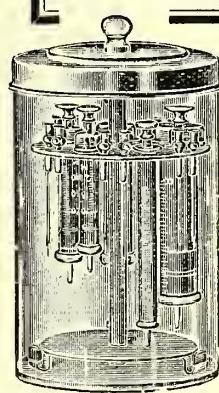
# AUTOPACK

LIMITED  
Weighing & Packing Machinery

**AUTOPACK Ltd., (Incorporating the Automatic Weighing & Packing Machine Co.),**  
Caroline Street, Birmingham, 3. Tel: COLmore 4082.

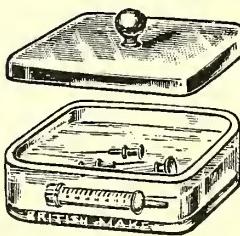
# A. SEARLE & CO.

SURGICAL INSTRUMENT MANUFACTURERS



Syringe Steriliser with Extending Rack

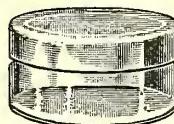
WHOLESALE AND EXPORT



Syringe Steriliser Tray



Ligature Winder



Glass Needle Box

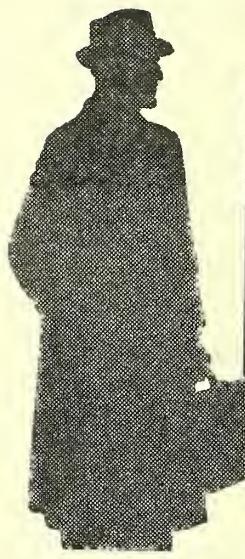
# A. SEARLE & CO.

SERLANCO HOUSE, 245 ST. JOHN STREET, CLERKENWELL, LONDON, E.C.I

Telephones: Terminus 1617, 1618

Telegrams: "Serlsurg, Smith, London"

Cables: A.B.C. and Bentleys

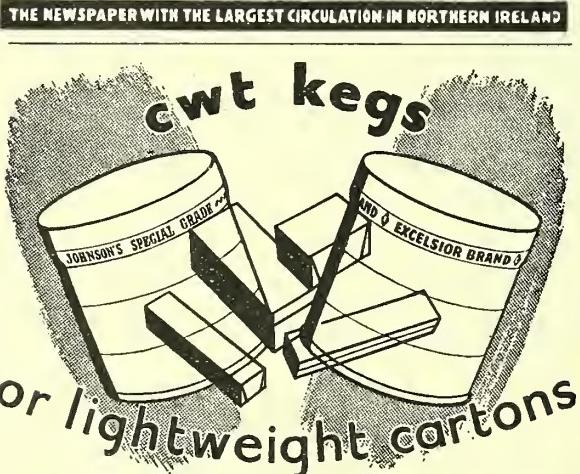


Your  
"SILENT"  
SALESMAN  
in  
NORTHERN  
IRELAND  
*An integral part  
of the  
United Kingdom*

Read in the homes of every  
hamlet, village, town and city  
throughout the whole of this  
important industrial and  
commercial territory.

## Belfast Telegraph

HEAD OFFICE ROYAL AVENUE, BELFAST. LONDON OFFICE 112 FLEET STREET, E.C.4



## Gosheron TAPES

seal them

**SPEEDILY**

**SECURELY**

**ATTRACTIVELY**

Let us help you solve your  
own sealing problem

JOHN GOSHERON & CO LTD GAYFORD ROAD LONDON W12

HOME TRADE

JKL

EXPORT

## BALSAM TOLU

(Gen. imported)

## GUM BENZOIN

(All grades)

## CAMPHOR

(All grades)

and all other Botanicals, Gums,  
Waxes, Essential Oils and Spices

**JOHN KELLYS (LONDON) LTD.**  
24 OLD BROAD STREET, E.C.2

Telephone: LONDON Wall 4882, 6585 (3 lines)

Telegrams: "Ergotine, Stock, London"

NEW YORK • HAMBURG

## MODERN EQUIPMENT



"WEBSTER'S"  
STAINLESS STEELWARE

**ISAAC WEBSTER & SONS LTD.**

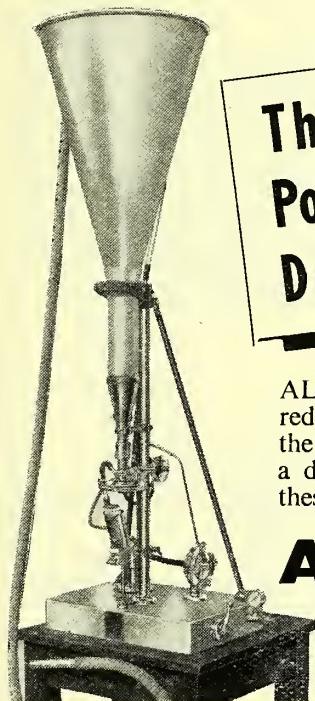
ABBEY WORKS

KIRKSTALL  
LEEDS. 5.

TELEPHONE  
51580  
LEEDS

TELEGRAMS  
"ISAAC WEBSTER"  
KIRKSTALL

# See ALBRO for Fillers & Cappers



This vacuum-operated  
Powder Filling Machine is  
**DUSTLESS** in operation!

ALBRO Powder Fillers are so efficient that reduced rates of insurance can be obtained under the Workmen's Compensation Act when powders of a deleterious or abrasive nature are being filled by these machines.

## **ALBRO** Filling Machines

For Liquids, Powders and Pastes

ALBRO FILLERS & ENGINEERING CO. LTD., WHARF ROAD, PONDERS END, MIDDX.

Telephone: Howard 2522

Telegrams: Albromach, Enfield

This ALBRO Powder Filling Machine handles bottles, tins, cartons or drums of many sizes with equal ease. Even cardboard cartons which are not absolutely air-tight can be filled satisfactorily.

The exclusive vacuum operation ensures completely dustless filling of talcum, face and cleansing powders, tooth and stomach powders, health salts, etc., from floor level or by gravity from above.

Machine is hand or pedal operated by junior or unskilled labour.

Output 1,800 containers per hour on smaller sizes.

Two-head semi-automatic and fully-automatic rotary powder fillers are also available. Ask for details.

# WATERHOUSE

FOR SHOP EQUIPMENT

*Makers of Fine Shop Fittings*

SOLE DISTRIBUTORS :

SHOPFITTERS (LANCASHIRE) LTD  
BULL BRIDGE - ACCRINGTON - LANCASHIRE

Telephone : Accrington 4238-9

**Containers—  
with all fittings**

**Corrugated pull-through boxes  
with or without divisions, of course!**

**COMPRESSED PAPER PACKING LIMITED**

HORTON ROAD · WEST DRAYTON · MIDDLESEX · Tel: WEST DRAYTON 2237

*A small firm with a  
BIG reputation for:—*

## CRUDE DRUGS

BOTANICALS	GUMS
BALSAMS	SPICES
CULINARY HERBS	WAXES
ESSENTIAL OILS	RAUWOLFIA

**BROME & SCHIMMER**  
*Importers & Millers*  
7 LEATHER MARKET, LONDON,  
S.E.1

## EADE'S PILLS & ANODYNE OINTMENT

A 100-year old repu-  
tation for efficacy in  
the relief of the pains  
of Rheumatism,  
Gout, Lumbago,  
Sciatica & Neuritis.

C.F. P.A.T.A.

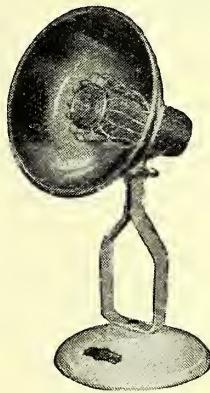


EADE'S PILLS		EADE'S ANODYNE OINTMENT	
RETAIL (inc. Pur. Tax)	WHOLESALE (Plus Tax)	RETAIL (inc. Pur. Tax)	WHOLESALE (Plus Tax)
1/9	13/3 doz.	1/9	13/3 doz.
3/10	28/9 doz.	3/10	28/9 doz.
6/6	48/6 doz.		

EADE'S PILLS LTD. (Dept. C & D)  
232 Goswell Road, London, E.C.1. Clerkenwell 3370

# SOL-TAN

*Relief from Pain !*



## 'SOL-TAN'

Cat. No. E.M. 39 P.

This attractively finished model is finished in Ivory and Eau-de-Nil. Reflector dia. 9½". Height 16". Burner No. 2 L.W. 250 Watt or No. 2 M.W. 400 Watt. Supplied complete with Treatment Instructions.

List Price

£3. 10. 0 Tax Free  
Spare Burners 13/9 each

*Indoor Sunshine !*

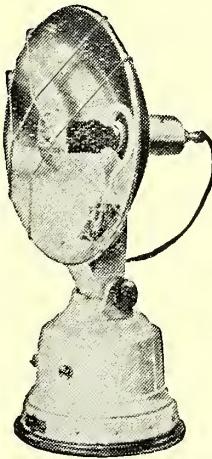
## 'SOL-TAN' "TRIPLERAY" 100/23 T.M.

Quartz Burner

This excellent portable model produces rich Ultra-Violet Radiant-Heat Infra-Red rays at a touch of a switch. Exceptionally well made and incorporating only the highest class materials and workmanship.

Operated on A.C. 200/220 & 230/250 volts

List Price £19.15.0 Complete  
Tax Free



*Only supplied against Doctor's certificate or for professional use*

Fully illustrated Catalogue gladly sent on request. 'Sol-Tan' Marketed for Home and Export by:—

THE LONDON COMMERCIAL ELECTRICAL STORES LTD.  
20-23 CURSITOR STREET, E.C.4. · CHANCERY 6488 / 9



Mysore Government Sandalwood Oil consignment being loaded at Bombay Port for transhipment to London Stock of the Trade Agent, per Air India International planes maintaining a 24 hour service between India and U.K.

# MYSSORE

*Sandalwood Oil*

For further information apply to:

TRADE AGENT FOR MYSORE  
9 Clifford Street, London, W.1

## CANADIAN MARKET

**Toronto Pharmacal Company Limited, Toronto, Ontario—can offer facilities for the manufacture, packaging and distribution of patent, proprietary and ethical medicines**

*Fifty years' experience*

### TORONTO PHARMACAL Co. Ltd

462-466 Wellington Street West,  
Toronto, 2B, Ontario, Canada.

Thos. A. McGillivray, President, formerly of Yardley of London (Canada), Ltd., and McGillivray Brothers, Ltd., Toronto, Canada.

For an unusually efficient service in the supply of all Patents, Ethical Proprietaries, Drugs, Galenicals and sundries.

We deliver regularly to pharmacists in South Yorkshire, Nottinghamshire and Derbyshire.

**SMITH & HILL**  
(CHEMISTS) LTD.  
SIDNEY ST., SHEFFIELD, 1.  
Telephone: 28383 (5 lines)

## EPHAZONE

### TABLETS

Rational, symptomatic treatment in  
**ASTHMA & BRONCHITIS**

Each tablet contains Ephedrine, the important anti-spasmodic for bronchial spasm, Theobromine, for its relaxing effect on the bronchial muscle and for stimulation of the coronary circulation, Phenazone, for its soothing effect on the higher centres, and Calcium gluconate, a readily absorbable calcium salt, for diminishing capillary permeability and checking the secretion of mucus.

These active ingredients with complementary effects in bronchial asthma are presented in the following proportions in the 'EPAZONE' Tablet:

#### Ephedrine

hydrochloride - - - -  $\frac{1}{4}$  grain

Theobromine - - - -  $\frac{1}{2}$  grain

Phenazone - - - - 1 grain

Calcium gluconate, - -  $\frac{1}{4}$  grain

*This preparation is sanctioned for prescription under N.H.S.*

**EPHAZONE LTD.** 59 Brook St., London, W.I. Tel: Mayfair 5496

*The Best costs no more!*

when ordering ZINC OXIDE  
insist on —



AND GET THE  
*Highest Standard of Purity*

WHOLESALERS ONLY SUPPLIED

ENGLISH MANUFACTURE

USED THROUGHOUT THE WORLD

Guaranteed free from lead and arsenic. Its manufacture is supervised throughout by qualified chemists. Each particle size will pass 240 mesh with less than 0.1% residue.

We supply most Wholesalers, but should you have difficulty please contact

**H. LATTIMER**

22 UPPER GROUND,  
BLACKFRIARS, LONDON SE1

Telephone: WATERLOO 5800

Manufactured by THE FELLING ZINC OXIDE COMPANY

*Ready Shortly*

# THE CHEMIST'S VETERINARY HANDBOOK

*formerly*  
**VETERINARY COUNTER PRACTICE**

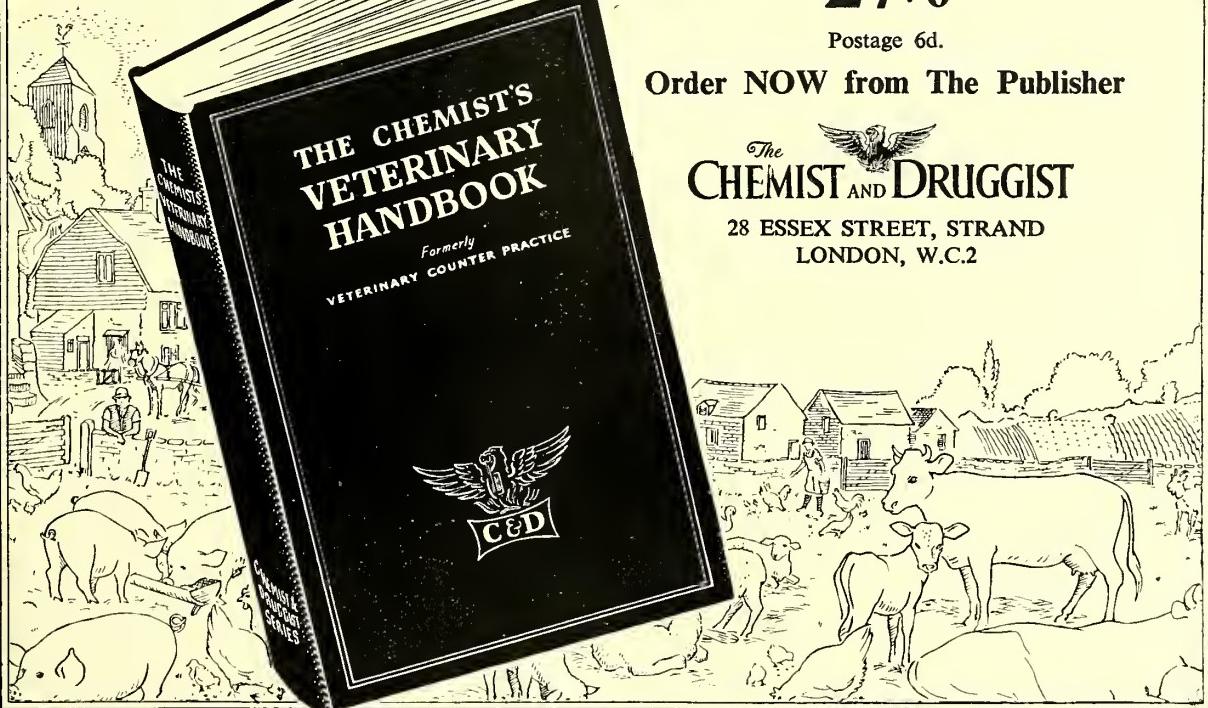
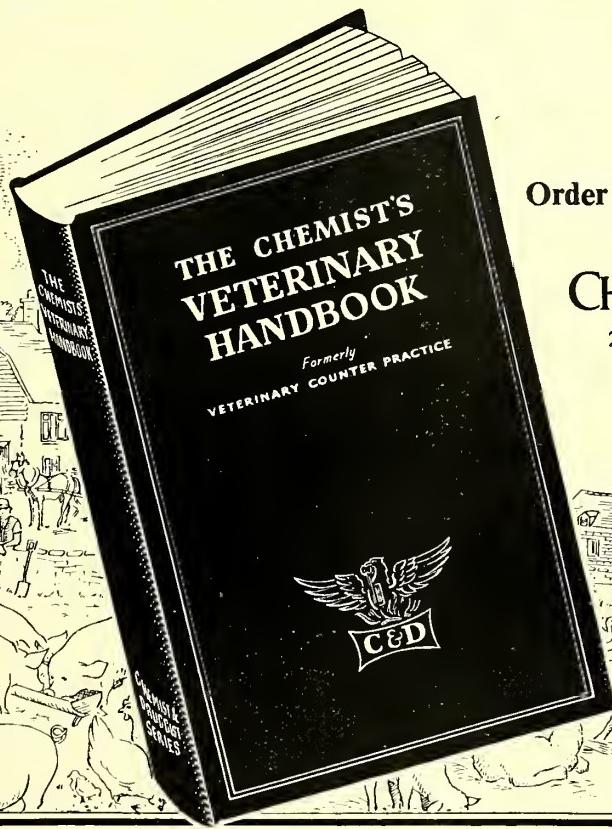
Provides the pharmacist with adequate and up-to-date information on animal diseases, their causes, and the drugs used in their control, thus enabling him to answer the inquiries and meet the requirements of members of the veterinary profession, to dispense their prescriptions and to handle with knowledge the goods that farmers, poultry keepers, pigeon fanciers and pet owners are accustomed to buy from him.

**27/-**

Postage 6d.

Order NOW from The Publisher

The  
**CHEMIST AND DRUGGIST**  
28 ESSEX STREET, STRAND  
LONDON, W.C.2



# Something they can trust

The public likes something reliable, something with dependable high quality. A faithful following is the public's response to trustworthy products that give real satisfaction. Such is the popularity of

## CUTICURA SOAP CUTICURA OINTMENT CUTICURA TALCUM POWDER CUTICURA SHAVING STICK

There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

CUTICURA SOAPS, OINTMENTS AND SHAVING STICKS HAVE ALWAYS CONTAINED CHLOROPHYLL

325

### AMERICAN OIL of PEPPERMINT

THE  
H. G. HOTCHKISS  
ESSENTIAL OIL CO.

*Established 1839*

LYONS, WAYNE COUNTY, N.Y.,  
U.S.A.

*Standard for Quality  
for 115 Years*

'SURCO'

### SURGICAL ELASTIC HOSIERY

SEAMED. SEAMLESS.  
TWO-WAY STRETCH.  
ELASTIC NET.

### SURGICAL BELTS TRUSSES AND SUNDRIES

*Over 60 years' service of everything surgical*

**SURGICAL HOSIERY CO., LTD.**  
Russell Street, NOTTINGHAM  
Telephone No. 75903      Telegrams: Surgical Notts

*Everything's right about*

. . . The Bay Rum in it (hair's finest tonic) ; the name (can't forget it) ; the big pack (can't miss it) ; the quality (can't better it) ; the low 2/6 price (who would believe it ?)  
*and the attractive Trade Terms.*



#### Bold original displays

In addition to the present displays, new designs are coming along that are more arresting than anything seen before for a man's hair cream.



#### Vigorous National Advertising

Sustained campaign extends right through the year and into 1955 with advertisements in big-circulation national dailies such as : Daily Mail, Daily Express, Illustrated, John Bull, Picture Post, Reveille, etc. etc.



**GIVES YOU BIGGER PROFITS**  
**keep it well displayed**

J. C. & J. FIELD, LTD., 162, NEW BOND STREET, LONDON, W.1

# EDME "Autumn Sun"

EXTRACT OF MALT  
WITH COD LIVER OIL (B.P.)  
WITH FLAVOURING

THE CHOICE OF THE FIRST CLASS CHEMIST

Prices  
on  
request  
P.A.T.A.  
list

**EDME LIMITED**

IMPERIAL HOUSE, 84-86 REGENT STREET, LONDON, W.I  
Phone: Regent 5563-4 Grams: Edme, Piccy, London. Works: Mistley, Essex

Attractive  
Show Cards  
and  
Window display  
Matter FREE

## TANNIC ACID AND DERIVATIVES

THE BRITISH DYEWOOD COMPANY LIMITED  
19 St. VINCENT PLACE, GLASGOW CI

## BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% Rectified B.P.  
Oil Euc. Dives 40/45%  
Phellandrene

70/75% Rectified B.P.  
Piperitone 90/95%  
Oil Euc. Phellandra

UNIFORMITY OF QUALITY · CONSISTENCY OF ODOUR

Agents for U.K.: **WILSON & MANSFIELD, LTD.**, 15 Philpot LANE, LONDON, E.C.3  
Phone: MANSION HOUSE 9264-5-6 (WHOLESALE ONLY) Grams: WYFIELD, LONDON

**This winter  
LOTS MORE  
of your  
customers  
will be  
taking**



*and*

**on**

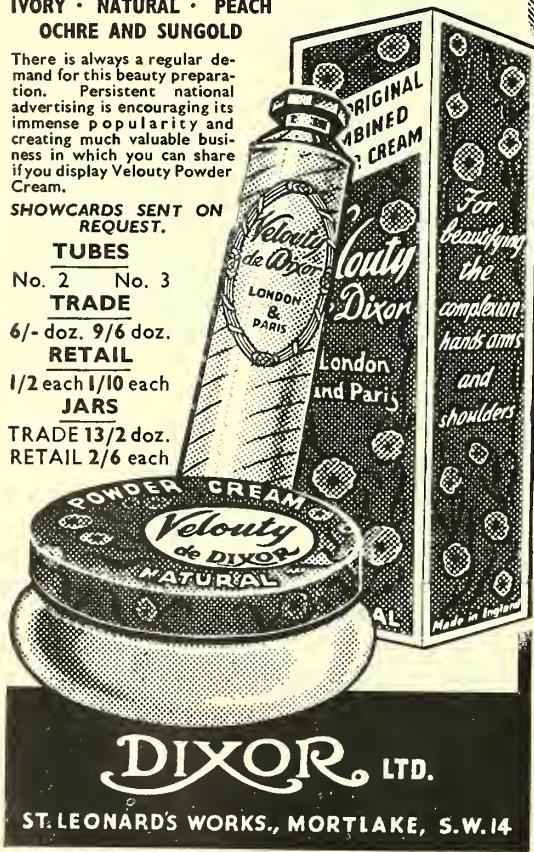
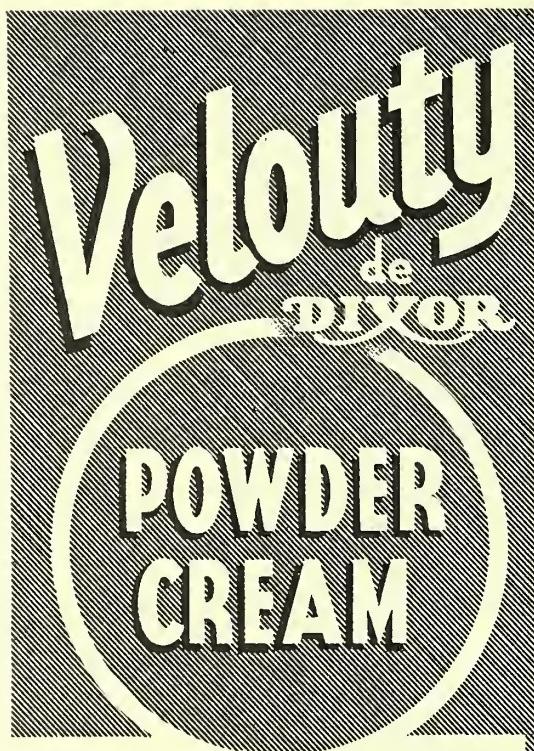
**ILFORD**



*The world's FASTEST Roll Film* **HP3**

ILFORD LIMITED . ILFORD . LONDON

Trade Showroom : 106/107 High Holborn . London . W.C.1 . Telephone : HOLborn 3401



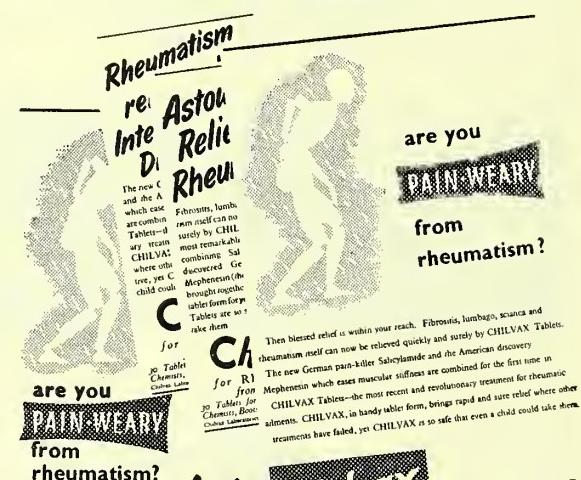
**daily delivery**  
IN THE GREATER LONDON AREA

A comprehensive service for the Pharmacist



# BIOREX

BIOREX LABORATORIES LIMITED  
Wholesale and Manufacturing Chemists  
47-51 EXMOUTH STREET, ROSEBURY AVENUE, LONDON, E.C.1  
Telephones: TERminus 9494, 5216-7



Then blessed relief! Fibrosis, lumbago, sciatica and rheumatism need can now be relieved quickly and surely by CHILVAX Tablets. The new German pain-killer Salicylamide and the American discovery Metheprenin which eases muscular stiffness are combined for the first time in CHILVAX Tablets. And remember, the tablets are in tablet form, brings rapid and sure relief where other treatments have failed; yet CHILVAX is so safe that even a child could take them.

**cash in Chilvax**  
for REAL RELIEF  
from Rheumatism  
20 tablets for 3/- 100 for 9/- from all  
Chemists, Boots, Tinsmiths & Factors  
Chilvax Laboratories Ltd., Kemtheutic House,  
Bradford 3.

... which is appearing in selected local evening papers. Display material is available.  
Ask your Wholesaler or write to us for trade terms.

**Chilvax**  
for REAL RELIEF  
from Rheumatism  
20 tablets for 3/- 100 for 9/- from all  
Chemists, Boots, Tinsmiths & Factors  
Chilvax Laboratories Ltd., Kemtheutic House,  
Bradford 3.

**Chilvax**  
for REAL RELIEF  
from Rheumatism  
20 tablets for 3/- 100 for 9/- from all  
Chemists, Boots, Tinsmiths & Factors  
Chilvax Laboratories Ltd., Kemtheutic House,  
Bradford 3.

# I.C.I. PENICILLIN PRICES DOWN AGAIN

AGAIN

Imperial Chemical (Pharmaceuticals) Limited announce further reductions in the prices of Penicillin, taking effect from November 1st. The new list prices, subject to trade discount, are given below.

### 'AVLON' CRYSTALLINE PENICILLIN G (Sodium Salt) B.P.

#### LIST PRICES EACH

	s. d.
* 0.1 mega unit bottles .....	1 0
* 0.2 " " " .....	1 1 $\frac{1}{2}$
0.5 " " " .....	1 6
1.0 " " " .....	2 3
2.0 " " " .....	3 9
5.0 " " " .....	8 9
10.0 " " " .....	15 0

### 'AVLON' PENICILLIN G (Potassium Salt) BUFFERED

#### LIST PRICES EACH

	s. d.
1.0 mega unit bottles .....	2 3
5.0 " " " .....	8 9
10.0 " " " .....	15 0

### 'AVLON' PENICILLIN G (Sodium Salt) BUFFERED

#### LIST PRICES EACH

	s. d.
5.0 mega unit bottles .....	8 9
10.0 " " " .....	15 0

\*The prices for these packs are unchanged.

### 'AVLOPROCIL' PROCAINE PENICILLIN G OILY INJECTION (300,000 units in 1 c.c.)

#### WITH ALUMINIUM STEARATE

#### LIST PRICES EACH

	s. d.
10 c.c. bottles .....	8 1 $\frac{1}{2}$
1 c.c. bottles, boxes of 10 .....	12 6

### 'AVLOPROCIL' A.S. CRYSTALLINE PENICILLIN PROCAINE SALT AQUEOUS SUSPENSION (300,000 units in 1 c.c.)

#### LIST PRICES EACH

	s. d.
10 c.c. bottles .....	8 1 $\frac{1}{2}$

### 'AVLOPROCIL' N.A. PROCAINE PENICILLIN INJECTION FORTIFIED

#### LIST PRICES EACH

	s. d.
0.4 mega unit bottles .....	1 7 $\frac{1}{2}$
4.0 " " " .....	8 9

### 'PENAVLON' PENICILLIN TABLETS

#### LIST PRICES EACH

	s. d.
200,000 units, tubes of 10 .....	3 6
bottles of 100 .....	28 3
500,000 units, tubes of 10 .....	8 0
bottles of 100 .....	70 0

**IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED**

A subsidiary company of Imperial Chemical Industries Limited

WILMSLOW, MANCHESTER



Ph. 484

**We can tell you . . .**

. . . where to get  
really Reliable and  
Dependable Service with  
**PRINTED TABLET CARTONS**

**J. N. WHITELAW**  
LABEL AND CARTON PRINTERS  
PALESTINE GROVE · MERTON, S.W.19  
Telephone: MIT. 4411

*They give delivery in 4 days.  
35 years' service to Chemists  
is proof of their reliability.*

*For the . . .*

**EXTRA ENERGY**

*... that helps to make  
CHAMPIONS*

**Simpkins**

**VITA GLUCOSE**

**THE ORIGINAL GLUCOSE TABLETS**

USED BY LEADING COMPETITORS IN EVERY SPORT

In 4 delicious flavours

10<sup>d</sup>  
Pkt

## AN ENCYCLOPÆDIA OF POISONS LAW

VOLUME I  
POISONS LIST & KEY  
**20/-** (postage 6d.)

The  
**CHEMIST AND DRUGGIST  
POISONS GUIDE**

VOLUME 2  
POISONS PROVISIONS  
& EXPLANATIONS  
**40/-** (postage 6d.)

Compiled and co-ordinated by **W. A. WHATMOUGH**, B.Sc., Ph.C., F.R.I.C.

No pharmacist, in whatever branch he is engaged, can afford to be without these two volumes, which together form a veritable encyclopædia of poisons law. They provide complete information on what the authorised seller of poisons should do in every situation covered by the Poisons Rules and Dangerous Drugs regulations and enables poisons to be supplied without the slightest anxiety. Order these essential volumes NOW!

Order from your Bookseller or direct from The Publisher: **28 ESSEX ST., STRAND, LONDON, W.C.2**

**BROOKS  
RUPTURE  
APPLIANCES**  
make excellent  
**'EXTRA'  
BUSINESS**



Why not take advantage of the goodwill established with the public by BROOKS Rupture Appliances in over 45 years of value-for-money trading?

Since April 1st, 1954, BROOKS National Health Service Band Trusses (M.O.H. specification) are carrying on the good work.

Details and terms will be gladly sent you upon request.

*Be sure when applying to say that it is for "trade terms".*

**BROOKS APPLIANCE CO. LTD.**  
80 CHANCERY LANE, LONDON, W.C.2

# "HANDYLINE" SERIES

Designed as a general purpose line,  
being equally suitable for a large range  
of medicinal, household and toilet  
packs, requiring wide neck finish.  
Sizes: 8, 6, 4, 3, 2, 1½ and 1 oz.



Regd. Design No. 872094

**THE INTERNATIONAL BOTTLE CO LTD**

PHONE  
MAYFAIR 6992  
(5 LINES)

140, PARK LANE, LONDON, W.1

GRAMS  
AUTREFOIS, AUDLEY  
LONDON

*Designers & manufacturers of high quality glassware*

# Price reduction for **BOOTS PENICILLIN** as from 1st November 1954

NEW NOMINAL RETAIL PRICES. All subject to usual discounts.

Penicillin, Sodium, Potassium and Procaine Salts	
0.1 m.u. 1/-	1.0 m.u. 2/3
0.2 m.u. 1 1/2	5.0 m.u. 8/9
0.5 m.u. 1/6	10.0 m.u. 15/-

'Pro-Stabillin' (Procaine Penicillin G. for Aqueous Suspension)

Vial of 3 m.u. 7/-

'Pro-Stabillin Oily' (Procaine Penicillin Oily Injection)  
0.3 m.u. per cc. 10 cc. vial 8/1½

'Bi-Stabillin' (Procaine Penicillin Fortified for Aqueous Suspension)

Vials containing:

Procaine Penicillin G, 0.3 m.u. { Box of 10-16/3  
Cryst. Sodium Penicillin G, 0.1 m.u. { Singles 1/7½

Vials containing:

Procaine Penicillin G, 0.9 m.u. { Box of 10-32/6  
Cryst. Sodium Penicillin G, 0.3 m.u. { Singles 3/3

## 'VIULES'

(Medical Cartridges)

'Pro-Stabillin A.S' or 'Pro-Stabillin Oily'  
BOX OF 6 BOX OF 10

0.3 m.u.	9/6	150/-
0.6 m.u.	14/-	225/-
0.9 m.u.	17/9	287/6



Literature and further information from the Wholesale & Export Department  
BOOTS PURE DRUG COMPANY LIMITED, NOTTINGHAM, ENGLAND  
(Nottingham 45501) London Sales Office: 71 Fleet Street, London, E.C.4 (Central 0111)

S132

## "ZORBO"<sup>REG'D</sup>

### Superfine Cotton Wool

This is a very old Trade Mark of ours and a product for many years in use by the Medical Profession and all those requiring a First Class Superfine Cotton Wool. Now packed in attractive white Cartons in various sizes and would be readily acceptable to your more exacting customers.

Of course this is just one of our Manufactures. We also supply in Cartons all B.P.C. Dressings in Cotton Wool, Lint and Gauze.

Our Products are obtainable from Wholesalers, but should you have difficulty a line to us will have prompt attention.

**ROBERT BAILEY & SON, LTD.**  
SURGICAL DRESSINGS MANUFACTURERS  
DYSART STREET, GREAT MOOR, STOCKPORT  
Phone STEPPING HILL 3006/7 Grams "UNDISPUTED" STOCKPORT

## A Nation-wide sampling scheme for

**Vocalzone**  
REGD

### THE THROAT PASTILLES

produced especially for

**CARUSO**, the great Italian tenor, will commence shortly. Free samples of Vocalzone, the throat pastille compounded by Dr. Wm. Lloyd, F.R.C.S., laryngologist for 15 years to Caruso, will be offered in a widespread advertising campaign in the National Press, Periodicals, on the Underground Railways and Radio Luxembourg.

At the reduced price of

**1/8**

Vocalzone Pastilles will be in great demand this winter

Obtainable from your usual suppliers or direct from  
**VOCALZONE LTD., 120 Moorgate, E.C.2**

# Pattinson's

REGISTERED BRAND PRODUCTS

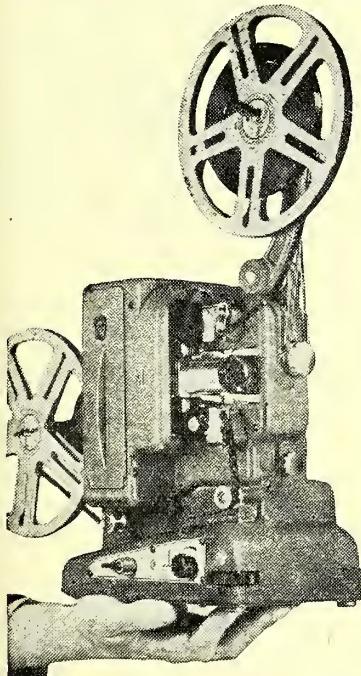
- LIGHT & HEAVY MAGNESIUM CARBONATES B.P.
- LIGHT & HEAVY MAGNESIUM OXIDES B.P.
- MAGNESIUM OXIDE LEVISSIMA
- MAGNESIUM HYDROXIDE B.P.C.
- MAGNESIUM TRISILICATE B.P.
- CREAM OF MAGNESIA B.P.

*Our Research Division welcomes enquiries from any manufacturer with a problem in which any of the above products are concerned. Please write to our Sales Technical Department if you require fuller information.*

*for the*  
**PHARMACEUTICAL**  
**Industry**

## THE WASHINGTON CHEMICAL CO. LTD.

*A member of the TURNER & NEWALL ORGANISATION*  
**WASHINGTON · CO. DURHAM · ENGLAND**



### “Here you are, Sir...”

Bolex is one of the two or three most respected names in 8 and 16mm film equipment.

When a customer asks to see a projector show him this brilliant M.8.R. It is the finest 8mm projector there is. Designed in every detail for 8mm films and precision built by Swiss craftsmen.

Trade terms for Bolex cine equipment are generous; and attractive literature, backed by national advertising in journals like Punch, Esquire, The Listener, Countryman, etc., keeps Bolex business moving all through the year.

Be sure you can offer an M.8.R. to your projector customers when you say “Here you are, Sir.” Order now in time for the winter trade.

# BOLEX M·8·R

8mm cine projector

Sole U.K. Wholesale Distributors:—

CINEX LTD., 9/10, North Audley Street, London, W.I.

Phone: Grosvenor 6546



**GLYCINE U.S.P.  
ICHTHAMMOL B.P.  
BARBITONE B.P.  
POTASSIUM GUALACOL  
SULPHONATE B.P.C.**

FERRO METAL & CHEMICAL CORP. LTD.  
VICTORIA HOUSE,  
VERNON PLACE, SOUTHAMPTON ROW, LONDON, W.C.1  
Telephone : CHAncery 6961 (3 lines)  
And at  
NEW YORK, STOCKHOLM, BERLIN, PARIS

EXCITE CUSTOM WITH  
**KENNETH**  
PRICE MARKERS



Send for  
FREE SAMPLES

**KENNETH PRICE MARKERS**  
55 Eastgate Street • Winchester • Hants.

**Ampoules  
Tubes  
& Vials**

TO ALL STANDARDS

The FRANCO-BRITISH GLASS Co. Ltd.

15-17, KING STREET, ST. JAMES'S, LONDON, S.W.1  
Telephone: TRAFalgar 4151

**ISOVAC**

**MAYFAIR Vacuum jug**

Interchangeable plastic-topped cork.  
Non-drip top. Leak-proof seal. Stands  
upside down for complete drainage.  
Shock resistant. Plastic moulded case.  
In pastel shades, ebony black base.  
No. 991 (16 fl. ozs.) 14/- No. 993 (36 fl. ozs.) 22/-  
Reg. Design No. 867860. British Patent No. 659499/659630

From your Wholesaler, or write to:  
**L REES & CO. LTD. (Isovac Division), 31/35 Wilson St., E.C.2 (Mon 2884)**



**PEPPERMINT OIL**

Single Rectified B.P.  
Double Rectified B.P.

**GALE & MOUNT LTD**  
37 ROTHSCHILD ROAD, LONDON, W.4  
Telephone: CHIswick 6628/9 Telegrams: Salmenta, Chisk, London

**BRISTOL BOTTLE COMPANY**  
WHITCHURCH BRISTOL

PHARMACEUTICAL BOTTLES AND CORKS.  
PROMPT ROAD DELIVERIES.

Price list on request.

Telephone

WHITCHURCH, BRISTOL 2062

**MANUFACTURERS AND EXPORTERS**

● GARLIC OIL	● HENBANE LEAVES
● ONION POWDER	● SENNA LEAVES
● GARLIC POWDER	● SENNA PODS

THE DEHYDRATION COMPANY OF EGYPT S.A.E.  
P.O. Box 1860 CAIRO, EGYPT

**NIPIITS**  
Voice, Throat & Chest Pastilles



TEASDALE & CO. LTD., CARLISLE

Specialise in the manufacture  
of Quality Tablets of every  
kind, and of Contraceptive  
Foam Tablets of the highest  
standard.

Quotations gladly submitted.

**Buckley Bowker Tablet Co.**  
LIMITED EST. 30 YEARS  
29 PARKFIELD STREET •  
LONDON • N. 1 • Telephone CANonbury 3041



# WE WANT MILLAMALT

Sole Manufacturers:  
JEFFREYS, MILLER & CO. LTD., Leyland Mills,  
Wigan. (London department: 19 Brookside Rd. N.19) BECAUSE OF THE BUTTERSCOTCH FLAVOUR

## A BEST SELLER!

**NURSE HARVEY'S MIXTURE**

More and more mothers are finding Nurse Harvey's Mixture a safe and soothing baby remedy. Have you adequate stocks to meet the ever-increasing demand which there is sure to be for this Nationally-advertised product? Display material free on request.

O. Scruton & Co. Ltd., York

C. & D.  
REFRESHER COURSE  
for Pharmacists

up to the minute information—compiled by a team of experts—Reprinted from "The Chemist & Druggist"

WIDE SELECTION OF TECHNICAL SUBJECTS FULLY COVERED

PRICE 3/- Postage 2d.

*Send remittance with order to—*  
The Publisher The CHEMIST & DRUGGIST  
28 ESSEX STREET · STRAND · LONDON, W.C.2.

## WILES DOG FOOD

PRICE DOWN  
QUALITY UP!

*A quick selling line with a generous profit margin*

RETAILS AT 8d per can  
PRICES ON APPLICATION

C. WILES LTD., WOODMANSEY, BEVERLEY, E. YORKS

## 'Harley' Quality Products

**THE Harley SANITARY TOILET ROLL** **SOFT & SMOOTH**  
**SANITARY TOILET TISSUE** **INTERFOLDED**

BOTH SELL FOR 1/-

Manufactured by  
**HAROLD WESLEY**  
HARLEY MILLS LONDON, N.W.10

## MAG. CARB. POND. B.P.

Fine Powder · Standard Powder & Granular

DUNN BROS. SUCCRS. LTD.  
1, Booth Street, Manchester.  
Established 80 years.

## SURE-SELLING STOCK!

OVER 150 YEARS REPUTATION  
**KEARSLEY'S**  
THE ORIGINAL  
**WIDOW WELCH'S FEMALE PILLS**

Established 1787  
in the Reign of King George III

Over 10d BOX PROFIT by ordering 1 dozen 4/1 size. Bonus given on every dozen (13). It pays to push this size.

C. & G. KEARSLEY LTD.  
71 DARTMOUTH ROAD, LONDON, S.E.23

## "ROADMASTER" NIGHTDRIVING GLASSES

—the new accessory that  
every Motorist wants!

Manufacturers : **FISH OPTICAL CO. LTD.★**  
McNeish House, 261 HARROW ROAD, LONDON, W.2  
Tel.: CUNNINGHAM 8318 & 8267

★Makers of the world-famous 'SUNGARD' Sunglasses

\*

\*

# Domestos "Clean-up" in 3000 Leading Cinemas

**22 Million to see hard selling, sales making films programme**

The audience for the three popular Domestos 'puppet' films this year will total nearly 23,000,000 spread over 3,100 cinemas.

These three films, amusing, entertaining, pack a mighty sales punch. They really do *sell* the housewife on the *extra* effectiveness of Domestos for eliminating the danger lurking in unclean sinks and drains especially "round the unseen bend where no brush can reach".

In more and more homes Domestos is giving hospital cleanliness the pleasant, modern way. These films will help your sales of Domestos to keep on growing.



\* APPROPRIATE COUNTER & WINDOW DISPLAY MATERIAL AVAILABLE

**DOMESTOS LIMITED**

COLLEGE WORKS, NEWCASTLE UPON TYNE, 6



**'UNISEC'** from the Single  
Unit to the Complete Pharmacy  
WRITE FOR YOUR COPY OF THE STANDARD  
REFERENCE OF PHARMACY FITTING

**MYERS of OLD ST.**  
133/5 & 141/7 OLD STREET, LONDON, E.C.1

**Situations Open—Continued**

**CENTRAL LONDON.** Young lady assistant required for toilet department in good class pharmacy. Permanent position with good progressive salary. Saturday half-day. Apply stating age and details of experience to Box C 7637.

**DONCASTER CO-OPERATIVE CHEMISTS, LTD.** require the services of three pharmacists (male or female). Two as branch managers, one as relief branch manager. 44-hour week; minimum salary £780, plus rota pay, etc. There is living accommodation for one branch manager. Applications, giving usual details, to Secretary, Doncaster Co-operative Chemists, Ltd., St. Sepulchre Gate, Doncaster. C 199

**HAYES, MIDDLESEX.** Excellent opportunity for energetic pharmacist to manage busy branch in pleasant area. Well fitted shop, Adequate assistance. Modern dispensary. Progressive salary with monthly bonus and rota duty payments. Accommodation available if required. Permanency with pension fund, etc. Apply with full details stating when available for interview to Box C 1862.

**ILFORD.** Pharmacist required to manage expanding branch close to busy main line station. Up-to-date dispensary and excellent supporting staff. Self-contained flat available within easy distance of the branch. Attractive salary and bonus scheme. Apply with full details stating when available for interview to Box C 1861.

**PHARMACIST,** preferably with optical qualification, required to manage country pharmacy near Oxford, an old-established family business with good scope for further expansion. Good house and garden available with garage. Apply with full particulars and present salary to R. Burbank, 116 Walton Street, Oxford. C 1855

**QUALIFIED CHEMIST** required as buyer of drug and photographic department Civil Service Stores. Previous retail store experience preferred but not essential. Write in first instance giving details of previous experience and salary required to the Directors, 425 Strand, W.C.2.

**RETFORD.** Pharmacist required to manage old-established family business. Modernised premises and a competent supporting staff make this a very genial post. Good salary. Three weeks' annual holiday, and free living accommodation. Apply to A. Platts, Eardley and Farnival, Ltd., 265 Glossop Road, Sheffield. C 1842

**STOKE-ON-TRENT.** Browns Chemists (S-o-T), Ltd., require a manager for their Tunstall branch. Good salary. Permanency. Details on application to Mr. R. E. Ridley, c/o Browns Chemists (S-o-T), Ltd., 48 Piccadilly, Hanley, Phone: S-o-T 22506. C 1843

**UNQUALIFIED MALE** dispensing assistant required for busy dispensary. Good experience essential. Permanency with good salary and working conditions for suitable applicant. Preferably single man to share furnished flat with another assistant. Apply with full particulars to Cartwrights, Chemists, 69 Leytonstone Road, E.15, Maryland 1336. C 1860

**WEST RIDING.** Superintendent pharmacist required. Good salary and commission. House provided. Apply Maurice Bailey & Co., 2 Cheapside, Bradford, 1. C 1830

**WHOLESALE**

**APPLICATIONS** are invited from pharmacists and others with a pharmaceutical or medical background for positions as medical representatives with a well-known pharmaceutical organisation. The territories vacant are in London and Lincolnshire. Remuneration according to qualifications and experience; contributory pension scheme. Opportunities exist for promotion to executive posts in the U.K. and overseas. Apply initially in writing to Box C 7664.

EST. 1883 BIS. 1941

**C. Ribbands & Sons**  
*The Complete Pharmacy Fitters*  
*Showrooms and Interiors*

3 RAVEY ST., BISHOPSGATE, LONDON. E.C.2.

**APPLICATIONS ARE INVITED** from young men and women preferably with pharmaceutical qualifications, for an interesting position which has arisen in Burroughs Wellcome & Co. The duties attached to the post include dealing with veterinary technical queries, the preparation and compilation of veterinary literature and abstracts, and other activities relating to the marketing of the company's veterinary products. Previous experience of this type of work is an advantage, but not essential, but applicants must have a keen interest in veterinary medicine. The position is progressive and pensionable (contributory scheme). Applications, which will be treated in strictest confidence, should give details of age and experience and be addressed to the General Sales Manager (Veterinary), Burroughs Wellcome & Co., 183/193 Euston Road, London, N.W.1. C 7650

**ASSISTANT ADVERTISING MANAGER** required by leading pharmaceutical company. Applicants must be experienced in medical copywriting and able to produce interesting technical literature in collaboration with medical and marketing personnel. Company pension scheme in operation. Write, stating age, qualifications and salary required to Box C 7656.

**ASSISTANT PURCHASING OFFICER:** The International Purchasing Office of a major chemical and pharmaceutical company requires the services of an assistant purchasing officer. This position is concerned with the purchase of a wide range of pharmaceuticals, chemicals and technical equipment in the United Kingdom and Europe, on behalf of an extensive overseas network of manufacturing plants. The applicant should be under 40 and must have had at least five years of buying experience in chemicals and equipment in world markets. This purchasing operation is expanding rapidly and offers scope for ability and initiative and a fine career opportunity. Replies will be held in strict confidence and should detail education, business career and present salary. Apply Box C 7697.

**ASSISTANT TABLET MAKER** required by manufacturing chemists. Good working conditions in ultra modern factory. 5-day week. Canteen, Pension, life assurance and profit participation schemes. Apply Works Manager, C. L. Benecard, Ltd., Minerva Road, London, N.W.10. Phone: Elg. 6681. C 7703

**BACTERIOLOGIST** with university degree wanted to take charge of laboratory producing veterinary vaccines and sera. Must be experienced in laboratory techniques and have had at least two years practical experience. Knowledge of veterinary work an advantage but not essential. Box C 7704.

**BAYER PRODUCTS, LTD.** invite applications for new vacancies on their medical representative staff, occasioned by rapid expansion of their interests in this country. A pharmaceutical or medical background is required but previous experience is not essential because a thorough training course is given. The work is interesting and offers good prospects of advancement. The company provides a car, pays all expenses and there is a superannuation scheme. Applications in confidence to S.D., Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. C 7625

**CALMIC, LIMITED**, require pharmacists (preferably with manufacturing experience) to assist in production of general pharmaceuticals including tablets, creams, ointments and fine chemicals. Applications should contain details of career to date, together with particulars of manufacturing experience, if any. Pension scheme. Five-day week. Apply: Works Manager, Calmic, Ltd., Crewe, Cheshire. C 7702

**EXPERIENCED** tablet maker required, fully conversant with all types of tablet machines. West London area. 5-day week, canteen, pension scheme, etc. Apply in first instance with full particulars and salary required to Box C 1824.

**COOPER, McDougall & Robertson, LTD.**, Berkhamsted, Herts, have vacancies for additional veterinary representatives, aged 25/35, to maintain sales contact with veterinarians in: (1) Scotland; (2) East Anglia and East Midlands; (3) Wales and adjacent Border Counties. The positions call for men of personality and integrity, with a sound knowledge of veterinary therapeutics. Previous sales experience in this field is desirable, and a pharmaceutical or equivalent qualification would be an advantage, although not essential. Salary according to experience and qualifications. Car provided, expenses paid, positions pensionable. Write fully in the first instance to the Veterinary Sales Supervisor, C 7692

**LABORATORY SUPERVISOR** for South-east London, manufacturing chemists. Excellent working conditions and prospects for capable man. Five-day week. Canteen. Easy access main railways. Box C 1844.

**LONDON PHARMACEUTICAL** distributor requires representatives for London, Home Counties, and all areas U.K. to sell entirely new product to chemists and bulk consumers (manufacturers, industry, etc.). Closed territory, generous commission for all orders and automatic repeats, share in multiples orders. Full details to and from Box C 1835.

**MANUFACTURERS** of lozenges and pastilles require full-time representative to call on retail chemists in Northumberland, Durham and Yorkshire, salary and all particulars to Box C 7705.

**MANUFACTURING CHEMISTS** require male assistant, experienced in general manufacture of galenicals. Apply in writing in first instance giving details of salary, experience, etc. J. M. Lovridge, Ltd., 6 Millbrook Road, Southampton. C 1850

**MEDICAL REPRESENTATIVES:** Sandoz Products, Ltd., invite applications from young men for the immediate appointment of medical representatives in the following areas: (a) Bristol, including Gloucestershire, Somerset, Devon and Cornwall; (b) South Wales, including South Welsh Counties and Herefordshire; (c) North West Glasgow and North Western Scotland; (d) Oxfordshire, Berkshire, Buckinghamshire and Northamptonshire; (e) Dorset, Hampshire and Wiltshire. Attractive salary; superannuation scheme in operation. Thorough training given. Age not exceeding 28. Applicants should be pharmacists (preferably F.P.S.). Please send full details of age, education, qualifications and experience, with photograph. Staff Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.I. C 1869

**MEGGESON & CO., LTD.** require the services of a senior accounting machine operator preferably experienced in National machines. Applications giving details of experience and present position held should be sent to the Secretary, Llewellyn Grove, London, S.E.16. C 1851

**OLD ESTABLISHED CORK MANUFACTURERS** require representative already calling upon chemists and drug houses, etc. Commission basis only. Apply Box C 1768.

**OLD-ESTABLISHED FIRM** requires representative in Midlands with real sales ability. Full details to Box C 7700.

**PART-TIME REPRESENTATIVES** required to work on good commission basis for nationally advertised hair beauty preparations selling to wholesale and retail chemists, stores and hairdressers. Well-established existing connection with excellent prospects for first-class men able and willing to advance existing business. Areas vacant are: (a) South London, Surrey, Kent, Sussex, Hampshire; (b) Warwickshire, Staffordshire, Worcestershire, Shropshire; (c) Gloucestershire, Herefordshire and South West country; (d) Berkshire, Buckinghamshire, Oxford, Bedfordshire, Hertfordshire and Eastern Counties. Write Box C 1814.

**RIKER**

Riker Laboratories, Limited, invite applications from pharmacists as Medical Representatives for the following areas:—

1. EAST YORKSHIRE
2. EAST ANGLIA
3. HAMPSHIRE AND SURREY
4. OXFORDSHIRE AND BERKSHIRE

Previous experience in medical representation is not necessary as full training will be given. Remuneration is by salary, bonus, expenses and a new car will be provided. There is a company pension scheme in operation.

Apply in writing to the Managing Director, Morley Street, Loughborough, Leics. C 7681

**SHARP & DOHME LTD.**

are proud to announce that additional Medical Representative Staff will be required shortly. Opportunities are available in a number of areas in the United Kingdom, and applications are invited for these positions. Theoretical and practical training is provided but candidates having a medical or pharmaceutical background will be given preference. Age of candidates should be between 25 to 35. Salaries are commensurate with experience and a full expense allowance is made. A Company car is provided and a contributory pension scheme is in operation. Prospective candidates wishing to join us should send full personal details to Home Sales Manager, Sharp & Dohme, Ltd., Hoddesdon, Herts. C 7690

**IMPORTANT**

**Box Office numbers are intended exclusively for specific answers to particular advertisements. Price Lists, Trade Circulars, Samples and Printed Matter cannot be forwarded.**

**Situations Open—Continued**

**PARKE, DAVIS & CO., LTD.**, invite applications from pharmacists for a junior executive position in their pharmaceutical manufacturing division. The position offers an opportunity to gain wide experience in modern large-scale production methods. Some previous manufacturing experience is desirable, although not essential. Five-day week, staff restaurant, generous pension plan. Write with full particulars to Personnel Manager, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex. C 7674

**PHARMACIST.** Applications are invited from men with experience in analysis and pharmaceutical manufacturing, interested in joining progressive pharmaceutical firm with expanding business, situated in South London. Congenial working conditions and first-class prospects for a man prepared to accept responsibility and show initiative. Box C 1845.

**PROGRESSIVE ORGANISATION** in process of expanding require salesmen (not order takers) with good personality, enthusiasm and above-average ability. Every assistance and opportunities provided to advance mutually with the company. Applicants must be car owners with established connections and consideration will be given to those desiring joint representation with their present house. Areas available: London, Home and S.E. Counties, Yorkshire, Lancashire, Cheshire and West Country. Fullest details, in confidence, to Managing Director, Box C 1856.

**REPRESENTATIVE REQUIRED** to take over connection amongst herbalists, chemists and health food stores in South Wales, Bristol and Gloucester area. Apply stating age and experience to Carter Bros., Manufacturing Chemists, Shapley, Yorks. C 1846

**SOUTH LONDON.** Representative required by manufacturing chemists to carry a few proprietary lines on generous commission basis. Established connection will be handed over. Applicants must be experienced and have a sound connection in the territory. Write giving full details of experience, etc., to Box C 1863.

**THE BRITISH DRUG HOUSES, LTD.** There is a vacancy for a young male pharmacist in the galenical department. The position is suitable for a person wishing to pursue a career in manufacturing pharmacy. Please write stating age and experience to HAC/HGR, The British Drug Houses, Ltd., Graham Street, City Road, N.I. C 7711

**THE BRITISH DRUG HOUSES, LTD.** Pharmacists are invited to apply for vacancy. Sales representative, East Midlands centred on the Nottingham area. Please write fully regarding experience and stating age, to The British Drug Houses, Ltd., ref.: HAC/CMH, Graham Street, London, N.I. C 7710

**THE CROOKES LABORATORIES, LTD.**  
Medical Representative

Applications are invited for a representative to cover Kent and Sussex. A pharmaceutical qualification or an adequate technical background is essential. Candidates should preferably be aged 25-40 and possess personality and initiative. The appointment carries a progressive salary and an annual bonus/commission payment, directly associated with territorial results obtained, together with an adequate expense allowance. The position is superannuated, and only candidates with a keen desire to progress should apply in writing to the Sales Director, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, N.W.10. C 7713

**YOUNG QUALIFIED CHEMIST** with mechanical bent required as trainee factory manager by nationally known manufacturers of carbonated beverage. Previous industrial experience an advantage but not essential. Applicant should be willing to move about as improvement in his position dictates. Commencing salary £750, with excellent prospects of improvement. Pension and profit participation schemes in operation. Apply with fullest details to Personnel Officer, Box C 7668.

**WHOLESALE (OVERSEAS)**

**PHARMACIST REQUIRED** by old-established East African company for administrative and sales development work in East Africa. Good salary and prospects; terms include free quarters, passages and pension fund. Initial contract three years with six months' leave on full pay. Replies to Box C 1847.

**WELL-KNOWN GROUP OF COMPANIES** in the toilet and pharmaceutical field invites applications from chemists (B.Sc. or A.R.I.C.) and pharmacists (B.Pharm. or Ph.C.) to take up appointments as factory managers in overseas factories. Extensive training will be given in the home factories of the group, during which period the applicant will receive a salary of £750 p.a. After posting abroad a four-figure salary plus local allowances will be paid. Box C 7669.

**PHARMACIST**

preferably unmarried and under 28, required by major Swiss pharmaceutical company. Must be prepared to reside permanently in Basle. Working knowledge of German necessary. Previous experience of ethical marketing desirable. Interests should lie in the preparation of medical literature and the development of export markets. Possibility of employment overseas later. Apply with full particulars to Box C 7706.

**SITUATIONS WANTED**

3/- for 18 words (min.) then 2d. per word.  
Box 1/-

**RETAIL (HOME)**

**LADY DISPENSER ASSISTANT** (Hall Certificate), well experienced hospital, retail and private practice, desires part-time post North-west London. Box C 1797.

**WHOLESALE**

**ADVERTISER**, with long varied experience of the pharmaceutical and chemical industries, including 17 years sales, office, and factory management and export-import work, seeks sound position with reputable firm. Box C 1819.

**COMPETENT EXECUTIVE**, 17 years' experience all branches pharmaceutical trade. Ex-managing director; seeks position as sales manager or similar position where hard work and ability will receive their due reward. Long sales experience, pharmaceuticals, toiletries, of sundries. Box C 1704.

**EXPERIENCED REPRESENTATIVE**, wholesale and retail, Resident East Lancs. Car owner. Any size area considered. Free December. Box C 1849.

**EXPERIENCED REPRESENTATIVE** with good pharmaceutical connection desires change and opportunity for advancement with house of repute. London preferred. Box C 1800.

**FORMERLY MANAGING DIRECTOR** of company specialising in tablets and pills, seeks position where wide experience of production, sales and administration is required. Box C 1815.

**REPRESENTATIVE**, sound connection wholesale-retail chemists throughout Midlands, open to represent reputable house. Salary, commission, expenses. 20 years trade. East Scotland considered also. Box C 1837.

**AGENCIES**

17/6 for 36 words (min.) then 4d. per word.  
Box 2/-

**AGENTS WANTED**. Amblins, Ltd., Camden Street, Portslade, Sussex. C 1858

**AGENTS WANTED** by firm recently commenced manufacturing toilet rolls. Apply Box C 1864.

**ETO****MONOSODIUM GLUTAMATE**

99% PURE

**GLUTAMIC ACID**

99% PURE

**GLUTAMIC ACID HYDROCHLORIDE**

99% PURE

Sales Department :

**RICHARD GRAEBENER**

FOOD MANUFACTURERS

Karlsruhe—Germany

**BERDOE & FISH**

Chemists' Transfer Agents and Valuers

41 ARGYLE SQUARE, KING'S CROSS, W.C.1  
(opposite St. Pancras and King's Cross Stations)

**Wanted immediately good class businesses in London, Home Counties and South Coast. Private clients waiting with cash up to £10,000.**

● All Valuations and Stocktakeings, carried out under personal supervision of principals.

Established 1870

Phone : TERminus 3574

**AGENCIES WANTED**8/6 for 36 words (min.) then 3d. per word.  
Box 2/-

**ADDITIONAL LINE REQUIRED** by representative with strong wholesale connection Midland and Northern England and Scotland. Commission only. Box C 1848.

**BUSINESS OPPORTUNITIES**17/6 for 36 words (min.) then 4d. per word.  
Box 2/-

**MANUFACTURERS** with modern plants offer facilities to firms who wish to market their own toilet preparations, e.g., bath cubes, talcum powder, toilet water, perfumes, shampoos, disinfectant blocks, moth rings, etc. Send enquiries to Box C 1840.

**NEW PRODUCTS.** Manufacturers interested in marketing new products of outstanding merit and proved salability required immediately. Enquiries for agencies from first-class overseas firms also welcomed. Box C 7683.

**OWN MATERIAL TABLED**, from 6d. per 1,000 upwards. Aspirin tablets a speciality. The Dales Tablet Makers, Ltd., Steeton, Yorkshire. Phone Steeton 3222. C 185

**REPUBLIC OF IRELAND** : Brand name products manufactured and/or packed and merchandised in Ireland. Proprietary preparations, toilet and cosmetic articles, etc. Modern selling and distribution facilities. Sound financial basis. Enquiries invited to Box C 1818.

**WANTED**17/6 for 36 words (min.) then 4d. per word.  
Box 2/-

**ALL KINDS OF BOTTLES, JARS, SCREW CAPS**, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair price for spot cash. We are buyers of merchandise of **EVERY DESCRIPTION**. Clearance Stocks. Discontinued lines. Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3. C 153

**MEDICAL BOTTLES**, tablet bottles, closures and all types of packaging materials purchased, no quantity too large. Samples and full details to Noel Davold & Co., 9 Lawrence Pountney Lane, Cannon Street, E.C.4. Mansion House 3951-2. C 178

**WANTED**: Fish oil, empty 120 gallon steel barrels after palm or similar oils; surplus or redundant stocks of blanc fixe, preferably Laporte make, lanette wax S.X., sulphonated castor oil, mineral oils, thioglycolic acid, sulphonated laurel pastes, lithopone, off-white quality will probably suit. Apply Box C 7708.

**WANTED**: Colton double worm mass mixer, 112 lb. capacity. Offers to Box C 7693.

**WE WILL PURCHASE** for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:—Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Rd., London, W.11. Tel.: Bayswater 4020, 7692. C 140

**MISCELLANEOUS SALES**17/6 for 36 words (min.) then 4d. per word.  
Box 2/-**AMBLINS SALES CO., LTD.**

Camden Street, Portslade, Sussex.

**1 DR. TO ½ OZ. PERFUME BOTTLES**, 20/- per gross upwards. Send 1/- if samples required. Lav. or Cologne oil, 25/- per lb. Perfumes of all kinds made and packed with your own labels. Range boxes, 18/- doz. Mascara boxes, 20/- doz. Metal spiral lipstick cases, good quality, 6/- doz. 1 drm. perfumes in display box, 4/6 doz. 2 drm. perfumes in display box, 6/6 doz. 4 oz. Cologne, 7/6 doz. 4 oz. wave set as supplied to the largest stores, 6/6 doz. in violet, gardenia or apple blossom perfume. All toilets are plus P.T.

C 1857

**COMPLETE PLANT** of small manufacturing chemist for sale, Gardner mixer, powder grinder, Youngs filler, vacuum bottle filler, ointment mill, various moulds, rouge presses, etc. 30 gals. peppermint essence, various chemicals, etc. Peddle, Brinscombe, Stroud, Glos. C 1826

**MODERN CHEMIST SHOPFITTINGS**, drug ranges, wallcases and frameless sliding doors, display counters and showcases; all types of window fittings and display stands. D. Matthews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14/16 Manchester St., Liverpool. C 141

**TITANIUM DIOXIDE ANATASE 98%**. Up to 5 tons available December. Up to 50 tons available January/February 1955. Samples on request. BM/BBBB, London, W.C.2. C 1859

**SALES BY AUCTION**18/- per half-inch (min.) and pro rata.  
Box 2/-

**B. NORMAN & SON**, 2/5 Little Britain (close to G.P.O.), London, E.C.1, will Auction on Wednesday, November 10, at 1.30 p.m., practically new light oak Shop Fixtures, including 10 ft. drug run, wall showcase, plate-glass display counters, cash tills, mirrors, display stands, glass shelves, office furniture, also a large selection of other shop equipment, shelving, nests of drawers, etc. View day prior. Catalogues (3d. by post) on application, C 7691

**MISCELLANEOUS**

**PRINTING**. Lithographic offset printers want contracts for mass production of labels, packages, showcards, etc. Special terms for long and repeat runs. Box P.P. 49560, Samson Clarks, 57-61 Mortimer St., London, W.1. C 7699

**SHOP FRONTS**, Stainless Steel, Bronze, Hardwood, Burns (£100). Shopfitters, Chiswick 1193, 67 High St., Cranford, Hounslow, Middlesex. C 198

**SHOWCASES, SHOWCASES, SHOWCASES**. Latest designs. All sizes including glass counters. Free delivery. Write for details to (Dept. "P"), Vandome & Hart, Ltd., Wenlock Rd., London, N.1 (Established 1660). Showrooms, High St., Kingston-on-Thames. C 196

**C. & D. REFRESHER COURSE**  
for PHARMACISTS

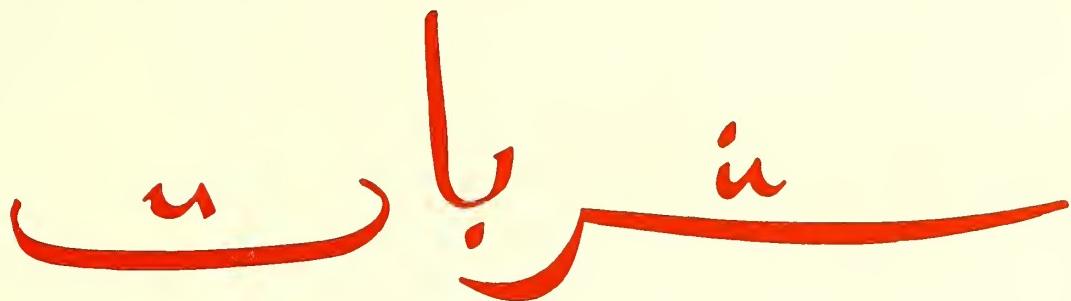
Send remittance with order to—

The Publisher, THE CHEMIST AND DRUGGIST  
28 ESSEX STREET · STRAND · LONDON · W.C.2

Up to the minute information—compiled by a team of experts—Reprinted from "THE CHEMIST & DRUGGIST."

**WIDE SELECTION OF TECHNICAL SUBJECTS FULLY COVERED**

PRICE 3/- Postage 2d.



*Your requirements met at once by Whiffens*

## ALKALOIDS

Atropine, Homatropine, Hyoscine

Emetine, Strychnine, Brucine

**WHIFFENS**



*suppliers of fine chemicals for more than 100 years*

WHIFFEN & SONS LTD., NORTH WEST HOUSE, MARYLEBONE ROAD, LONDON, N.W.1

Telephone: PADdington 1041/9

Telegrams: Whiffen, Norwest, London

OCTOBER 30 1954



**Every cow  
and sheep in  
your area is  
a potential  
customer...**



**'Minel'**  
 solves a costly and troublesome  
 problem for farmers

*'Minel' does three things at once!*

- ① CLEARS OUT ROUNDWORMS**
- ② CLEARS OUT LIVER FLUKES**
- ③ PROVIDES ESSENTIAL MINERALS**

Roundworms, liver flukes, and mineral deficiencies all cause serious yearly losses to farmers. Routine dosing with 'Minel' quickly controls these three conditions; it maintains stock in full health and vigour; increases the yields of meat, milk and wool; and adds to the farmer's profit—and yours! 'Minel' saves time and effort because it is a triple-action remedy.

Recommend 'Minel' now to your farming customers. 'Minel' consists of a dispersible mixture of phenothiazine and hexachloroethane, with copper and cobalt added. When farmers dose cattle and sheep with 'Minel'—they see them thrive!

*The triple-action remedy for cattle and sheep* →



IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.  
 A subsidiary company of Imperial Chemical Industries Limited  
 WILMSLOW, MANCHESTER

Ph.397

'MINEL' is widely advertised to farmers at appropriate seasons. Literature and display material are freely available, as well as complete small printing blocks for your own local advertising.

'MINEL' is easy-to-dose  
 'MINEL' is highly effective

Routine treatment means regular sales

1 lb. tins retail at 9/6d. 7 lb. tins at 60/-

